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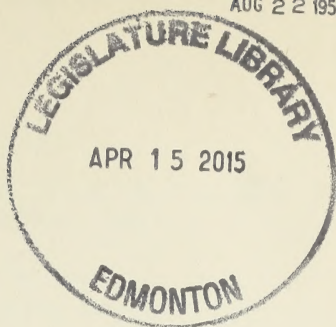


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ANNUAL REPORT
OF
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THE MINES DIVISION
OF THE
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Department of Mines and Minerals
OF THE
PROVINCE OF ALBERTA
5
1954

Edmonton:
Printed by A. Shnitka, Queen's Printer
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ANNUAL REPORT, 1954

ANNUAL REPORT OF THE MINES DIVISION FOR THE
YEAR ENDING DECEMBER 31, 1954

J. A. DUTTON, Director of Mines

17 MURRAY, A. M. DUTTON, Director of Mines

The value of gold produced from the mines in the Province during the year 1954 was 1,412,342 tons, with a value of \$1,412,342. The value of silver produced was 1,412,342 tons, with a value of \$1,412,342. The value of copper produced was 1,412,342 tons, with a value of \$1,412,342. The value of lead produced was 1,412,342 tons, with a value of \$1,412,342. The value of zinc produced was 1,412,342 tons, with a value of \$1,412,342. The value of iron produced was 1,412,342 tons, with a value of \$1,412,342. The value of other minerals produced was 1,412,342 tons, with a value of \$1,412,342.

During the year the value of gold produced was 1,412,342 tons, with a value of \$1,412,342. The value of silver produced was 1,412,342 tons, with a value of \$1,412,342. The value of copper produced was 1,412,342 tons, with a value of \$1,412,342. The value of lead produced was 1,412,342 tons, with a value of \$1,412,342. The value of zinc produced was 1,412,342 tons, with a value of \$1,412,342. The value of iron produced was 1,412,342 tons, with a value of \$1,412,342. The value of other minerals produced was 1,412,342 tons, with a value of \$1,412,342.

This reduction in production and

Edmonton, Alberta,

February 10th, 1955.


TO THE HON. ERNEST C. MANNING,
Minister of Mines and Minerals.

SIR:

I herewith submit the Report of the Mines Division for the year ending December 31st, 1954.

Respectfully submitted,

J. A. DUTTON,
Director of Mines.



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ANNUAL REPORT OF THE MINES DIVISION FOR THE
YEAR ENDING DECEMBER 31, 1954.

J. A. DUTTON, *Director of Mines*
(J. HORNE, *Assistant Director of Mines*)

The output of coal produced from the mines in the Province during the year 1954 was 4,859,136 tons, with a valuation of \$26,349,275. This shows a decrease of 1,058,287 tons compared with the tonnage produced in 1953, which was 5,917,423 tons, with a decrease in valuation of \$5,809,160.

During the year the number of manshifts totalled 943,558. This is a decrease of 197,973 manshifts in comparison with 1953. In that year the number of manshifts totalled 1,141,531.

This reduction in production and manshifts can be attributed to:—

(1) A decrease in the use by railroad companies of 882,040 tons of coal and 44,434 tons of briquettes, due to dieselization of locomotives.

(2) The continued lack of orders due to the mild weather.

The disposition of coal during the year was as follows:—

	Tons
Sold for consumption in Alberta	1,064,817
Sold for consumption in other Provinces	2,285,367
Sold to the United States	33,124
Sold to railroad companies	743,743
Used making briquettes	606,917
Used under colliery boilers	98,687
Used by colliery railroads	1,158
Put to stock	919,581
Put to waste	121,716

The above tonnages include lifted from stock and waste heaps, which are not included in the total output.

The disposition of briquettes during the year was as follows:—

	Tons
Sold for consumption in Alberta	10,452
Sold for consumption in other Provinces	92,310
Sold to railroad companies	530,828
Used under colliery boilers	107
Put to stock	45,730
Lifted from stock	—42,541
Lifted from waste	—1,385
Total output of briquettes	635,501

Of the output of coal, 2,129,567 tons were produced from 59 strip mines operating in the Province. During the year production from stripping operations decreased 405,626 tons, or 19.05 per cent under 1953. In that year the total was 2,535,193 tons. There was a decrease of 6 strip mines in comparison with 1953, when 65 strip mines were in operation.

During the year 12 quarries produced 1,114,115 tons of shale, clay and limestone, from which 34,721,849 bricks and

34,869 tons of hollow tile were made. In addition to the above output, 7,087 tons of shale, clay and limestone were imported.

There were 136 mines which produced coal during the year, of which 5 were opened, 51 re-opened, 62 closed and 35 abandoned. At December 31st, 1954, 116 mines were in operation.

There were 4,950 men employed during the month of December, this being a decrease of 1,243 in comparison with the corresponding month of 1953.

During the year there was a total of 486 miners' certificates, miners' provisional certificates and miners' permits issued by the Inspectors, enabling the holders to proceed to the coal face as miners. This represents a decrease of 147 in comparison with 1953.

During the year there were 2 first class or mine managers' certificates, 4 third class or examiners' certificates, 4 mine surveyors' certificates, 3 first class mine electricians' certificates and 1 second class mine electrician's certificate granted. In addition 3 strip mine managers' certificates, 9 strip mine foremen's certificates and 4 strip mine blasters' certificates were granted. There were also 11 quarry blasters' certificates granted.

Six examinations were held throughout the Province for coal miners' certificates of competency, and 151 certificates issued to successful candidates. In addition 25 miners' duplicate certificates were issued by this office.

615 inspections were made under the terms of The Coal Mines Regulation Act, 538 inspections in connection with The Workmen's Compensation Board Regulations and 23 inspections in connection with The Quarries Regulation Act, comprising 1,176 inspections made by the Inspection staff during the year.

Eighteen samples of coal were collected and forwarded to The Research Council of Alberta, Edmonton, for analysis. Six samples of coal dust were also collected for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts; this being in addition to the regular inspections of the mines. All complaints made to the Department were investigated.

There were 19 prosecutions instituted for contravention of The Coal Mines Regulation Act and The Quarries Regulation Act, made up as follows:—2 owners, 2 agents, 2 operators, 2 general managers, 4 overmen, 1 examiner, 3 miners, 1 quarry foreman, and 2 men. 19 convictions were obtained.

The purchased electrical power by mines was 50,688,957 k.w. hours, this being a decrease of 7,811,636 k.w. hours in comparison with 1953. During the year the number of mines using electrical power was 74, a decrease of 7 under 1953. The number of electrical coal-cutting machines in use was 141, a decrease of 3 under 1953, and the total horsepower of electrical motors in use, both above and below ground, was 59,266 h.p., a decrease of 369 h.p. in comparison with 1953.

Due to the decrease of men employed underground, there was a decrease of the use of protective equipment, there being in use during 1954, 3,132 hard hats, 2,605 pairs of safety shoes, 422 pairs of goggles and 256 pairs of knee pads.

The number of fatal accidents during the year was 8 as compared with 10 in 1953. This equals 1.65 fatalities per million tons of coal produced.

As regards the aforementioned fatalities, 4 occurred on the surface and 4 underground. Causes of the fatal accidents are as follows:—electricity 1; haulage 3; miscellaneous 3; tippie machinery 1. The total number of accidents reported to this office during the year was 100, a decrease of 29 from the number reported in 1953.

There were no applications received during the year for the installation of diesel locomotives. During 1954 there were 11 diesel locomotives operating in the mines in the Province.

The Central Board of Examiners during 1954 consisted of the following:—As representing:

The Mine Inspectorate:—J. A. Dutton, Director of Mines.

Mine Managers:—A. Crawford and P. M. Ramsay.

Working Miners:—A. Ragon and H. R. Sherwood.

Secretary:—Muriel M. Roberts.

Examinations during the year were held on June 1st, 2nd, 3rd and 4th for all classes of certificates at Blairmore, Drumheller, Edmonton and Edson. Examinations were also held for Quarry Blasters' Certificates on January 28th, May 27th, June 1st, June 3rd, September 9th and September 23rd, at Exshaw, Redcliffe, Blairmore and Canmore.

On January 6th, a heating occurred in the sealed off goaf area on 3 South, of the Midland Coal Mining Co. Ltd., Drumheller. This old area of the mine has been on fire for many years and the above heating had penetrated the seals. All heated material was loaded out and nothing further has since been observed.

The boiler house and some stoking equipment of West Canadian Collieries Ltd. (Greenhill Mine) Blairmore were destroyed by fire on January 22nd, resulting in loss of work for two weeks. A new boiler house has since been erected.

On May 3rd, a combination residence and storehouse at Steve's Mine, Lethbridge, was destroyed by fire. There have been no plans made to rebuild same.

A fire occurred on 9 North airway near the booster fan installation of Star Coal Mines Ltd., Rosedale, on October 13th. The cause of the fire was either due to slipping of the belt drive, or a fall of rock onto the power cable causing a short circuit. The fire was quickly brought under control and extinguished and the burned timbers replaced.

On December 21st, a fire occurred at the tippie of West Canadian Collieries Ltd. (Bellevue Mine), Bellevue, destroying several hundred feet of the belt conveyor. A new belt has since been installed.

Regulations to The Coal Sales Act were established by Order-in-Council during the year. Among other items, the regulations make provisions for the registration of Trade Name Certificates, methods for the sampling and analysis and the classification and grading of the coal.

The coal from two mines was sampled and analyzed during the year by the District Inspectors, the particulars of which will be found elsewhere in the report.

During the year 27 trade names were registered under The Coal Sales Act.

SUMMARY OF INFORMATION COMPILED FROM THE REPORTS OF THE INSPECTORS

BLAIRMORE INSPECTION DISTRICT (P. MELSON, *District Office, Blairmore*)

There were 10 mines producing coal in this district during the year 1954, located by areas as follows:—Crowsnest 8, Pincher 2.

Of this number 3 are strip mines, located by areas as follows:—Crowsnest 3 (two of which are combined operations).

During the year, 63 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 59 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Blairmore on June 1st, 2nd, 3rd and 4th.

No miners' examinations were held in this district during the year. Three miners' permits were issued by this office.

Six coal dust samples were collected for analysis.

One trade name was registered under The Coal Sales Act.

Two prosecutions were instituted for contravention of The Coal Mines Regulation Act, and were as follows:—operator for failing to forward Coal Operators' Monthly Statements and owner for failing to forward Coal Operators' Monthly Statements. Convictions were gained in each case.

One new mine was opened in this district during the year as follows:—Mine No. 1738, drift opening by Rhodes Mining Company, Lundbreck.

Two mines were re-opened in this district during the year.

One mine changed ownership in this district during the year as follows:—Mine No. 1731, Daniel A. Pollo, Pincher Creek to Dawn Coal Mining Company, Pincher Creek.

Three mines were temporarily closed in this district during the year.

One mine was abandoned in this district during the year as follows:—Mine No. 1440, Rhodes Mining Company, Lundbreck.

Thirty accidents were reported direct to this office from the mines during the year including two fatal accidents, the particulars of which are as follows:—a tippie labourer was entangled in a drive belt at crusher while oiling bearings on shaft; a tippie labourer was run over by a railroad car while cleaning railroad crossing. Of the remaining twenty-eight accidents, six occurred on the surface of which two were classified as serious and four classified as slight. The twenty-two underground accidents were classified as twelve serious and ten slight.

On January 22nd, a fire destroyed the boiler house and some stoking equipment at West Canadian Collieries Ltd. (Greenhill Mine), Blairmore, resulting in a loss of work of two weeks.

A fire at the tippie of West Canadian Collieries Ltd. (Bellevue Mine), Bellevue, on December 21st, destroyed several hundred feet of belt conveyor. A new belt has since been installed.

Due to the closure of Coleman Collieries Ltd. (International Mine), Coleman, there was a surplus of tippie hands and underground labourers in this district. However, by the end of the year the majority of these had found work elsewhere, though some of the older men are still unemployed.

Particulars as to days lost at each mine during the year due to shortage of orders are as follows:—West Canadian Collieries Ltd. (Bellevue Mine) 124 days; Coleman Collieries Ltd. (McGillivray Mine) 90 days; West Canadian Collieries Ltd. (Greenhill Mine) 124 days; West Canadian Collieries Ltd. (Adanac Mine) 124 days; Coleman Collieries Ltd. (Tent Mountain Mine) 100 days; Beaver Mines Coal Company 120 days; Dawn Coal Mining Company 240 days.

A steady decline in the amount of coal produced in this district was caused by the effect of substitute fuels. The railways have steadily cut the amount of coal used with additional diesel-electric locomotives put into use. Therefore, the specifications are raised for a better quality of coal, necessitating drying and briquetting of the fines, which resulted in general reduction of working crews and abandonment of districts which were not highly productive and of high quality coal.

During the year Mr. Melnyk resigned from the miners' examination board. No appointment has yet been made of a replacement.

There was one quarry operating in this district during the year as follows:—Quarry No. Q 8, Summit Lime Works, Crowsnest, B.C. Three quarry inspections were made during the year. A labourer was fatally injured at this quarry during the year, due to a rock slide which pinned him underneath.

The following is a list of improvements and installations at the various mines in this district:—

Mine No. 199, Beaver Mines Coal Company, Beaver Mines, one 4 ft. by 6 ft. vibrating screen.

Mine No. 204, Coleman Collieries Ltd., Coleman, installed two new Turbine Gears Ltd. gear reducers and two English Electric Motors of 250 h.p. and CGE 225 h.p. motor, converting their steam-driven compressors and generator to electric drive. A complete briquetting plant of 30 ton per hour capacity, with railway car unloading hopper, conveyor scales and vibrating screens and a 150 h.p. boiler; Model HA Hough Payloader of 30 h.p.; a 25 ton diesel-electric switching locomotive; 2600 ft. of railway spur tracks and a 250 c.f.m. compressor were installed at International powerhouse.

Mine No. 396, West Canadian Collieries Ltd., Blairmore, installed on the surface one 4 ft. by 8 ft. Dillon screen for re-screening stoker coals; one 5 inch SRL 20 h.p. heavy media pump; three banks of cyclones with a 5 h.p. drag conveyor and a 2 h.p. extractor; an aluminum sheeting boiler house and storage bin. Underground one 500 US G.P.M. Allis-Chalmers pump with a 200 h.p. C.G.E. 2300 volt protected motor complete with F.L.P. flameproof switchgear; one 32 h.p. International gas-driven motor to drive the conveyor.

Mine No. 1695, Coleman Collieries Ltd., Coleman, one caterpillar D7 tractor with dozer; one caterpillar D8 tractor with dozer and one caterpillar No. 70 scraper of 12 yd. capacity.

Quarry No. Q 8, Summit Lime Works, Crowsnest, B.C., a fourth kiln was put into use during the year after being idle for a considerable time during unsuccessful efforts to use liquid fuel; and additional fans and ducting were installed after some traces of Carbon-monoxide were found in the mill.

CALGARY INSPECTION DISTRICT

(A. MUIR, *District Office, Calgary*)

There were 16 mines producing coal in this district during the year 1954, located by areas as follows:—Big Valley 1; Carbon 10; Cascade 1; Gleichen 3; Pekisko 1.

Of this number 3 are strip mines all of which are located in the Carbon Area.

During the year, 75 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act.

All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 60 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

One miner's examination was held in this district on June 3rd at Canmore. Twenty-seven candidates passed the examination and were issued miners' certificates. Seven miners' provisional certificates and twenty-one miners' permits were issued by this office during the year.

One coal sample was collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Two prosecutions were instituted for contraventions of The Coal Mines Regulation Act and Quarries Regulation Act, particulars of which were as follows:—fireboss for assaulting a hoistman in the mine while on duty; quarry foreman for failing to enter a report of inspection of quarry. Convictions were obtained in each case.

One new mine was opened in this district during the year as follows:—Mine No. 1740, strip mine by Nottal Brothers, Three Hills.

Six mines were re-opened in this district during the year.

One mine changed ownership in this district during the year as follows:—Mine No. 1499, Nottal and Davidson, Three Hills to Nottal Brothers, Three Hills.

Six mines were temporarily closed in this district during the year.

Two mines were abandoned in this district during the year as follows:—Mine No. 1244, Frank Wheatley, Banff; Mine No. 1723, Eugene Beaudet, Munson.

Nine accidents were reported direct to this office from the mines during the year, of which two occurred on the surface, one classified as serious and one classified as slight. The seven underground accidents were classified as five serious and two slight.

There was no shortage of manpower in this district during the year.

All the mines in this district lost an average of 45 days due to shortage of orders.

There were three quarries operating in this district during the year as follows:—Quarry No. Q 2, Canada Cement Co. Ltd., Exshaw; Quarry No. Q 3, Loder's Lime Co. Ltd., Exshaw; Quarry No. Q 19, Light Weight Aggregates of Canada Ltd., Calgary. Nine Quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 2, Canmore Mines Ltd., Canmore, installation of

coal washéry; coal magnet; motor generator sets and substation at briquette plant and tippie; additions to No. 3 powerhouse and sprinkler system; 3 P-15 pickhammers; one Holman Dryductor Handrill; one Thor electric saw; 4 Eickoff Shaker Conveyor Engines complete.

Mine No. 1283, H.B. Coal Mine, Trochu, 1 Victor coal drill 1.5 h.p., 220 volts.

Mine No. 1431, Consumer's Mine, Rosebud, one Booster fan.

Mine No. 1516, Ideal Coal Co. Ltd., Priddis, several new Buxton switches; one 60 ft. 2-inch galvanized pipe to pump water inserted in new air shaft.

Mine No. 1521, Lucky Strike Mine, Rosebud, ½ h.p. motor and pump; 1 h.p. motor and booster-type fan.

DRUMHELLER INSPECTION DISTRICT

(R. SHAW, *Distict Office, Drumheller*)

There were 23 mines producing coal in this district during the year 1954, located by areas as follows:—Big Valley 1; Drumheller 19; Sheerness 3.

Of this number 8 are strip mines, located by areas as follows:—Big Valley 1; Drumheller 5; Sheerness 2.

During the year, 91 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 70 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Drumheller on June 1st, 2nd, 3rd and 4th.

One miner's examination was held in this district on November 26th at Drumheller. Forty-two candidates passed the examination and were issued miners' certificates. Forty-two miners' provisional certificates and ninety-one miners' permits were issued by this office during the year.

Four trade names were registered under The Coal Sales Act.

Two prosecutions were instituted for contravention of The Coal Mines Regulation Act, particulars of which were as follows:—two miners for riding on loaded mine cars underground without obtaining permission from the proper officials to do so. Convictions were gained in each case.

Six mines were re-opened in this district during the year.

Two mines changed ownership in this district during the year as follows:—Mine No. 1398, T. G. Ironside and A. Glover,

Scapa to T. G. Ironside, Scapa; Mine No. 1573, Monarch Coal Mining Co. Ltd., East Coulee to Amalgamated Coals Ltd., East Coulee.

Six mines were temporarily closed in this district during the year.

Four mines were abandoned in this district during the years as follows:—Mine No. 1401, F. Pahl, Hanna; Mine No. 1520, Minute Coal Co. Ltd., Drumheller; Mine No. 1599, H. S. Chambers, Drumheller; Mine No. 1708, G. L. Grant, Fenn.

Thirty accidents were reported direct to this office from the mines during the year including two fatal accidents, the particulars of which are as follows:—a machine boss received fatal injuries when a derailed car dislodged several roof supports and the roof caved catching him at the controls of a locomotive; a tracklayer was crushed between a locomotive and side when his clothing caught on some object causing him to be pulled from locomotive. Of the remaining twenty-eight accidents, one occurred on the surface which was classified as slight. The twenty-seven underground accidents were classified as twelve serious and fifteen slight.

On January 6th, a minor heating occurred at Midland Coal Mining Co. Ltd., Drumheller, when fire from the sealed-off goaf area on 3 South passed through the cleavages of a retaining coal pillar. There was no damage, and nothing further has since been observed.

A fire occurred at the Star Coal Mines Ltd., Rosedale on October 13th, due to disruption of a booster fan installation inbye on 9 North airway. Some timbers were destroyed but were immediately replaced.

Mine No. 402, Red Deer Valley Coal Co. Ltd. went on strike for nine days, due to the dismissal of a miner. The miner was later reinstated.

During the early fall there was a definite shortage of certified examiners and personnel experienced in mechanized mining. The shortage was rectified as the season progressed.

Particulars as to days lost at each mine during the year due to shortage of orders are as follows:—Midland Coal Mining Co. Ltd. 49 days; Red Deer Valley Coal Co. Ltd. 51 days; Century Coals Ltd. (422) 49 days; Star Coal Mines Ltd. 63 days; Brilliant Coal Co. Ltd. 123 days; Saskatchewan Federated Co-operatives Ltd. 92 days; Century Coals Ltd. (1484) 37 days; Murray Collieries Ltd. 48 days; Amalgamated Coals Ltd. 76 days.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 367, Midland Coal Mining Co. Ltd., Drumheller, a cross-measure slope was driven for ventilation purposes and an Aerodyne fan installed.

Mine No. 402, Red Deer Valley Coal Co. Ltd., Drumheller, one 4 in. by 2 in. shaker screen at tippie.

Mine No. 436, Star Coal Mines Ltd., Rosedale, two G20 Goodman Duckbill drives.

Mine No. 1484, Century Coals Ltd., East Coulee, one Ingersoll Rand compressor with a 75 h.p. motor; one 60 h.p. hoist.

EDMONTON INSPECTION DISTRICT

(J. THOMSON, *District Office, Edmonton*)

There were 55 mines producing coal in this district during the year 1954, located by areas as follows:—Ardley 3; Camrose 5; Castor 16; Edmonton 15; Halcourt 3; Nordegg 1; Pembina 3; Saunders 1; Tofield 5; Westlock 3.

Of this number 31 are strip mines, located by areas as follows:—Ardley 3; Camrose 5; Castor 4; Edmonton 6; Halcourt 2; Nordegg 1 (combined operation); Pembina 3; Tofield 4; Westlock 3.

During the year, 128 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 128 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Edmonton on June 1st, 2nd, 3rd and 4th.

Two miners' examinations were held in this district on the following dates and locations:—June 3rd and December 8th at Edmonton. Twenty-six candidates passed the examination and were issued miners' certificates. Eleven miners' Provisional certificates and thirty-two miners' permits were issued by this office during the year.

Twelve coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Seven trade names were registered under The Coal Sales Act.

Three prosecutions were instituted for contraventions of The Coal Mines Regulation Act, particulars of which were as follows:—operator for operating a strip mine without a certified foreman in charge; general manager on two charges for failing to forward Coal Operators' Monthly Statements on time. Convictions were gained in each case.

Two new mines were opened in this district during the year as follows:—Mine No. 1736, underground operation by Buckle Brothers, Donalda; Mine No. 1737, underground operation by J. Castella, Red Deer.

Twenty-four mines were re-opened in this district during the year.

Two mines changed ownership in this district during the year as follows:—Mine No. 651, Baldwin Collieries Ltd., Grande Prairie to F. G. Gibney, Grande Prairie; Mine No. 1718, Jones and Son, Donalda to Centennial Coal Mine, Donalda.

Thirty-one mines were temporarily closed in this district during the year.

Seventeen mines were abandoned in this district during the year as follows:—Mine No. 241, Joe Proskow, Dinant; Mine No. 388, Bighorn & Saunders Creek Colls. Ltd., Saunders; Mine No. 720, Harry Ebert, Calmar; Mine No. 1098, Mike Vitaly, Namao; Mine No. 1232, J. H. Ainsworth, Halkirk; Mine No. 1237, D. Dryden, Halkirk; Mine No. 1417, James Easton, Castor; Mine No. 1419, Pine Creek Colls. Ltd., Edmonton; Mine No. 1441, Leonard Buckle, Donalda; Mine No. 1488, Allyn Mann Construction Co., Alix; Mine No. 1560, K. Nimko, Calmar; Mine No. 1627, Beverly Coals Ltd., Carbondale; Mine No. 1628, Blue Point Mine, South Edmonton; Mine No. 1634, F. N. Wiltse, Halkirk; Mine No. 1650, John Lynass, Forestburg; Mine No. 1658, T. Opalinski, Ellerslie; Mine No. 1728, Cragg Brothers, Thorsby.

Twelve accidents were reported direct to this office from the mines during the year including one fatal accident, the particulars of which are as follows:—a surface labourer spilled a can of gasoline on himself while driving a tractor; the gasoline ignited causing fatal burns. Of the remaining eleven accidents, four occurred on the surface of which three were classified as serious and one classified as slight. The seven underground accidents were classified as five serious and two slight.

Particulars as to days lost at each mine during the year due to shortage of orders are as follows:—Brazeau Collieries Ltd. 150 days; Alexo Coal Co. Ltd. 125 days; Edmonton Collieries Ltd. 98 days; Starkey Coal Co. Ltd. 42 days.

There were three quarries operating in this district during the year as follows:—Quarry No. Q 1, J. B. Little and Sons Ltd., Edmonton; Quarry No. Q 5, Alexander Brick and Tile Co. Ltd., Cannell; Quarry No. Q 16, K. J. Dalen, Grande Prairie. Two quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 256, Brazeau Collieries Ltd., Nordegg, one 300 ton storage bin; one HuWood Belt Conveyor, 200 ft. long driven by a 7½ h.p. G.E. Induction Motor; one Reciprocating feeder driven by a 10 h.p. English Electric motor; one creeper 40 ft. long driven by a 15 h.p. G.E. Motor; one rotary dump and hand operated hopper; one Canadian Fairbanks Morse springless scale; one tugger hoist; one Gardner Denver compressor, 150 lb. pressure, driven by a 100 h.p. G.E. Induction Motor; one M.B. Wilde Co. Ltd. electric hoist, 75 h.p. B.T.H. Motor; one

small Sirocco fan 4 ft. in diameter; one Pyronal transformer 100 K.V.A.; one Gardner air driven pump.

Mine No. 724, S.H. Burnstad, Round Hill, new tippie replacing one destroyed by fire, with bar screen, 24 in. belt conveyor and rotary screen driven by gas engine.

Mine No. 1463, Riverdale Coals Ltd., Namao, power line extended from old air shaft to new shaft, a distance of 650 ft.; telephone installed from office to inside workings.

Mine No. 1718, Centennial Coal Mine, Donalda, one 15 K.V.A. D.C. generator driven by a 25 h.p. diesel engine; one Siskol coal cutter.

Mine No. 1727, Red Hot Coals Ltd., Edmonton, two 5 h.p. pumps; one 7½ h.p. tugger hoist.

Quarry No. Q 5, Alexander Brick and Tile Co. Ltd., Cannell, a new kiln has been completed in a building 600 ft. by 50 ft. The trams when loaded weigh 12½ tons each, and one tram is delivered from the tunnel every 58 minutes.

EDSON INSPECTION DISTRICT

(A. L. LISTER, *District Office, Edson*)

There were 14 mines producing coal in this district during the year 1954, located by areas as follows:—Coalspur 4; Mountain Park 1; No Area 1; Pembina 5; Prairie Creek 1; Whitecourt 2.

Of this number 9 are strip mines, located by areas as follows:—Coalspur 2; Mountain Park 1; No Area 1; Pembina 3; Whitecourt 2.

During the year, 80 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 62 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Edson on June 1st, 2nd, 3rd and 4th.

One miner's examination was held in this district on February 27th at Mercoal. Twenty-three candidates passed the examination and were issued miners' certificates. Two miners' provisional certificates and sixteen miners' permits were issued by this office during the year.

Three coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Six trade names were registered under The Coal Sales Act.

Five prosecutions were instituted for contravention of The Coal Mines Regulation Act, the particulars of which are as follows:—owner for failing to forward Coal Operators' Monthly Statements on time; two agents for failing to forward Coal Operators' Monthly Statements on time; two men for entering a mine without having obtained permission to do so. Convictions were gained in each case.

One new mine was opened in this district during the year as follows:—Mine No. 1739, strip mine by Pembina Peerless Coal, Entwistle.

Five mines were re-opened in this district during the year.

Two mines changed ownership in this district during the year as follows:—Mine No. 1657, L. Opheim, Entwistle to H. Rhodes and Son, Entwistle; Mine No. 1714, H. Schnur and C. M. Woodley, Hinton to Yellowhead Hard Coal Company, Hinton.

Seven mines were temporarily closed in this district during the year.

Seven mines were abandoned in this district during the year as follows:—Mine No. 769, Sterling-Coal Valley Mining Co. Ltd., Coal Valley; Mine No. 1495, Pembina Peerless Coal Co., Entwistle; Mine No. 1652, N. Fry & T. Larson, Gainford; Mine No. 1657, L. Opheim, Entwistle; Mine No. 1681, Edward Hughes, Mayerthorpe; Mine No. 1690, Chris Mertz, Telfordville; Mine No. 1692, King Coal & Lumber Co., Coalspur.

Thirteen accidents were reported direct to this office from the mines during the year including two fatal accidents, the particulars of which are as follows:—a tippie labourer was fatally crushed when attempting to brake a runaway boxcar; a mine mechanic was fatally injured when he fell from a moving locomotive underground. Of the remaining eleven accidents, two occurred on the surface which were classified as slight. The nine underground accidents were classified as seven serious and two slight.

Approximately 16 days were lost at the mines in this district due to lack of railway cars, the shortage generally occurring during unusually wet weather when tracks were washed out.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—Alberta Southern Coal Co. Ltd. 15 days; Luscar Coals Ltd. 46 days; Sterling-Coal Valley Mining Co. Ltd. (1002) 109 days; Bryan Mountain Coal Co. Ltd. 28 days.

During the year Mr. Jasper Rochester was appointed to the miners' examination board.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 419, Alberta Southern Coal Co. Ltd., Wabamun, one 26 inch conveyor belt 75 feet in length with a 10 h.p. drive;

one storage bin partitioned into two 30 ton compartments to facilitate handling truck trade.

Mine No. 771, Canadian Collieries (Dunsmuir) Ltd., Foot-hills, extensive repairs to bunk-house and some mine cottages.

Mine No. 846, Canadian Collieries (Dunsmuir) Ltd., Mer-coal, one 300 K.W. Fairbanks Morse diesel generating set to augment the power plant; one 900 c.f.m. Canadian Ingersoll-Rand electric compressor in the power house; one 30 ton per hour nut coal crusher on the tippie; one 50 ton slack coal bunker and screening room constructed; one 100 K.W. Hewittic rectifier for trolley haulage; one 500 G.P.M. standby pump.

Mine No. 1002, Sterling-Coal Valley Mining Co. Ltd., Coal Valley, one Stump Air Flow cleaning table complete with feed elevator; dust cyclone and sizing screen for cleaning small size coal, with a capacity of 35 tons per hour.

Mine No. 1569, Alex Watson, Blue Ridge, constructed one new house; installed set of weigh scales.

LETHBRIDGE INSPECTION DISTRICT

(J. D. B. BROWN, *District Office, Lethbridge*)

There were 18 mines producing coal in this district during the year 1954, located by areas as follows:—Brooks 2; Champion 2; Lethbridge 8; Pakowki 1; Redcliff 1; Taber 4.

Of this number 5 are strip mines, located by areas as follows:—Brooks 2; Lethbridge 1; Taber 2.

During the year, 88 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 69 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

One miners' examination was held in this district on December 11th at Lethbridge. Thirty-three candidates passed the examination and were issued miners' certificates. Seven miners' provisional certificates and seventy-eight miners' permits were issued by this office during the year.

Two coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Five trade names were registered under The Coal Sales Act.

Five prosecutions were instituted for contravention of The Coal Mines Regulation Act, the particulars of which are as follows:—overman for failing to fire shots electrically; overman for permitting an unauthorized person to fire shots; overman

for allowing a miner to shoot shots; overman for allowing an uncertificated person to work at the working face; miner for shooting shots while being an unauthorized person. Convictions were gained in each case.

Eight mines were re-opened in this district during the year.

Twelve mines were temporarily closed in this district during the year.

Four mines were abandoned in this district during the year as follows:—Mine No. 56, A. Razzolini, Magrath; Mine No. 228, Taber Coal Co. Ltd., Taber; Mine No. 1536, Oliver Coal Mines, Taber; Mine No. 1717, Wm. Russell, Carmangay.

Six accidents were reported direct to this office from the mines during the year including one fatal accident, the particulars of which are as follows:—a mine manager was fatally injured when a short circuit in a cutting machine arced. Of the remaining five accidents, two occurred on the surface of which one was classified as serious and one classified as slight. The three underground accidents were classified as serious.

On May 3rd, a fire destroyed a combination residence and storehouse at Steve's Mine, Lethbridge. Several mine supplies, records and personal belongings were lost.

Particulars as to days lost at each mine during the year due to shortage of orders are as follows:—Ajax Coal Co. Ltd. 111 days; Steve's Mine 111 days; C. Travaglia 111 days; Lethbridge Collieries Ltd. (1263) 165 days; Lethbridge Collieries Ltd. (1464) 123 days; P. Fontana & Sons 63 days; J. J. Hamilton Coal Co. Ltd. 65 days; Continental Coal Corp. Ltd. 200 days; Alberta Southern Coal Co. Ltd. 95 days; Kleenbirn Collieries Ltd. 60 days; Coral Coals Ltd. 178 days.

There were three quarries operating in this district during the year as follows:—Quarry No. Q 4, Perry Brick & Tile Co. Ltd., Redcliff; Quarry No. Q 7, Redcliff Pressed Brick Co. Ltd., Redcliff; Quarry No. Q 14, Medicine Hat Brick & Tile Co. Ltd., Medicine Hat. Nine quarry inspections were made during the year. A blaster was fatally injured at Perry Brick & Tile Co. Ltd., Redcliff, while handling explosives improperly.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 1509, P. Fontana & Sons, Champion, constructed a new tippie; installed one Le Roy portable compressor; one Ingersoll Rand radial cutting machine; equipped the tippie with electricity where a belt and shaker screen are so operated.

Quarry No. Q 4, Perry Brick & Tile Co. Ltd., Redcliff, one new dragline.

Quarry No. Q 14, Medicine Hat Brick & Tile Co. Ltd., Medicine Hat, addition of 9,000 sq. ft. to factory; installed new burning systems on the down-draft kilns; constructed a new up-draft kiln; installed new loading facilities.

ELECTRICAL INSPECTION OF MINES

(B. TAIT, *District Office, Edmonton*)

During 1954 there were 74 mines in Alberta using electrical equipment. In addition to these, six small mines use only miners' electric lamps, battery charging apparatus or electric signals. Six of these 80 mines ceased using electricity during the year. At December 31st there were 74 mines using electricity.

Electrified mines closed during 1954 are as follows:—Mine No. 1098, Mike Vitaly, Namao; Mine No. 1157, Bryan Mountain Hard Coal Co., Robb; Mine No. 1441, Buckle Brothers, Donalda; Mine No. 1628, Blue Point Mine, South Edmonton. In addition, Mine No. 1206, Ryley Coal Co., Ryley and Mine No. 1624, C. Binder, Ryley, now operate strip mines using no electricity.

Eighty complete inspections and ten partial inspections were made at mines during the year and all mines using electrical energy, except three which were closed when their districts were visited, have been inspected. Two inspections were made at quarries where electric shovels, draglines, etc., were used.

One fatal accident involving electricity, one serious and one slight accident were reported to this office during the year. A mine manager was electrocuted underground when a severe lightning storm broke down a transformer and it appeared that the primary voltage of 13,200 volts went through the transformer casing to the 220 volt secondaries, and the man apparently received his injuries while plugging in the coal cutting machine trailing cable.

Major electrical installations at mines during 1954 are as follows:

Mine No. 2, Canmore Mines Ltd., Canmore, have been re-wiring the tippie and coal preparation plant and motors to 620 h.p. have been installed.

Mine No. 88, Coleman Collieries Ltd., Coleman, have constructed a new briquette plant with motors to 479 h.p.

Mine No. 204, Coleman Collieries Ltd., Coleman, have installed compressors and motor-generator sets, etc. to 736 h.p.

Mine No. 846, Canadian Collieries (Dunsmuir) Ltd., Mer-coal, have installed fans, compressors, etc. to 423 h.p.

Mine No. 1597, Lehigh Coal Co. Ltd., Sheerness, have constructed a new coal preparation plant with motors to 130 h.p.

There were numerous smaller installations to a total of 1,316 h.p., exclusive of the above "Major Installations".

The total horsepower of motors, connected load, in use at mines during 1954 is as follows:

Surface		Underground	
Duty	H. P.	Duty	H. P.
Hoisting	8,277	Pumping	5,741
Ventilation	2,570	Rope Haulage	1,400
Air Compressing	8,040	Conveying and Loading	1,083
Tipple & Coal Preparation	15,259	Cutting and Drilling	5,554
Plants	8,795	Miscellaneous	2,547
Miscellaneous			
	42,941		16,325

Total above and below ground 59,266 h.p.

The figures below show the trend in the use of certain types of electrical equipment underground in mines:

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
Cutting Machines	147	156	166	184	184	197	183	185	149	141
Battery Locomotives	32	37	39	39	41	47	46	47	42	42
Trolley Locomotives	15	16	19	22	23	29	29	31	27	25
Conveyors	23	27	38	47	74	92	82	83	50	41
Coal Drills	31	40	52	59	79	91	93	105	88	94
Face Loaders .....	....	....	1	6	7	7	11	12	10	10

Kilowatt hours of energy purchased by mining companies from Central Stations:

Year	K.W.H.	Year	K.W.H.
1939	27,575,926	1947	47,892,597
1940	31,660,119	1948	49,724,365
1941	35,973,384	1949	53,590,982
1942	41,401,573	1950	50,418,029
1943	41,491,378	1951	50,956,876
1944	39,349,384	1952	58,317,042
1945	42,790,653	1953	58,500,593
1946	46,012,415	1954	50,688,957

Five electric shovels, two of them 10-yard shovels, are in use at strip mines with voltage supply from 440 to 4,160 volts. Two diesel-electric shovels are in use with direct current voltage generated at 550 volts. Three 2,300 volt shovels, one operating at 440 volts, are in use at quarries.

The majority of electrified mines are supplied with power from Central Stations. In addition there were in use at mines during 1954, local steam plants with a capacity of 4,475 kilowatts and diesel or gas engine driven generators with a capacity of 2,130 kilowatts.

THE MINES DIVISION

THE COAL SALES ACT

Analyses of commercial coals sampled by the District Inspectors during the year, and published in accordance with Regulation 16 (5) of The Coal Sales Regulations established under the above Act.

Sundance Mines Ltd.

Mine No. 129

	Lump	Egg	Nut	Stoker	Slack
Size "	Plus $4\frac{1}{2}"$	2" x $4\frac{1}{2}"$	$1\frac{3}{4}"$ x 2"	$7/16"$ x $1\frac{3}{4}"$	- $7/16"$
Moisture %.....	27.9	26.2	26.1	25.8	25.7
Volatile Matter %...	28.2	28.5	28.5	29.1	26.2
Fixed Carbon %.....	39.2	38.7	38.1	37.6	33.3
Ash %.....	4.7	6.6	7.3	7.5	14.8
B.T.U.....	8,580	8,570	8,500	8,520	7,540

Egg Lake Coal Co. Ltd.

Mine No. 1582

	Lump	Egg	Nut	Stoker	Slack
Size "	Plus $4\frac{1}{2}"$	2" x $4\frac{1}{2}"$	1" x 2"	$\frac{3}{2}"$ x $1\frac{3}{4}"$	- $\frac{1}{2}"$
Moisture %.....	28.2	28.9	28.1	28.2	29.6
Volatile Matter %...	28.6	27.3	26.9	26.7	25.0
Fixed Carbon %.....	39.1	36.8	36.4	37.3	33.9
Ash %.....	4.1	7.0	8.6	7.8	11.5
B.T.U.....	8,580	8,010	7,960	8,040	7,380

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1953,

Calendar Year	Short Tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	250,070	586,260
1894	184,940	475,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,605
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,245,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,118,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,637,287
1919	4,964,535	18,294,495
1920	6,833,500	29,849,608
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,864,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,068
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,016	13,342,675
1932	4,870,648	13,528,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,233	13,698,470
1939	5,519,208	14,415,281
1940	6,203,839	16,377,959

THE MINES DIVISION

1941.....	6,969,962	19,382,471
1942.....	7,764,053	22,624,410
1943.....	7,676,726	24,030,686
1944.....	7,428,708	26,814,957
1945.....	7,800,161	27,751,377
1946.....	8,826,311	33,441,930
1947.....	8,070,430	36,439,095
1948.....	8,123,255	42,217,449
1949.....	8,616,855	44,644,153
1950.....	8,116,220	41,687,211
1951.....	7,659,329	40,981,581
1952.....	7,194,757	39,908,362
1953.....	5,917,474	32,110,429
<hr/>		
Total.....	274,158,160	967,360,439

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1953 the mine output figures are given.

ESTIMATED ALBERTA COAL RESERVES

As at February, 1945

Name of Area	Total Area sq. mi.	Area underlain by coal sq. mi.	Thickness of coal feet	Tons per acre foot	Tonnage millions of tons	Totals millions of tons
KOOTENAY FORMATION						
Smoky River.....	1,490	55	50	1,860	3,300	
Brule.....	715	36	23	1,860	1,000	
Mountain Park.....	690	108	40	1,875	5,200	
Nordegg.....	835	46	27	1,840	1,500	
Clearwater.....	645	18	25	1,860	500	
Panther.....	410	11	25	1,860	300	
Cascade.....	870	100	32	1,880	3,900	
Highwood.....	745	90	60	1,860	6,100	
Oldman.....	515	72	30	1,800	2,500	
Crowsnest.....	840	140	30	1,900	5,100	29,700
BELLY RIVER (including Edmonton)						
Halcourt.....	970	72	3	1,800	300	
Prairie Creek.....	565	25	15	1,820	400	
Coalspur.....	1,125	100	30	1,900	3,600	
Saunders.....	745	72	20	1,840	1,700	
Morley.....	1,480	80	10	1,800	900	
Pekisko.....	945	75	15	1,820	1,300	
Pincher.....	955	36	7	1,860	300	
Sexsmith.....	1,570	2	5	1,800	10	
Valhalla.....	1,765	5	5	1,800	30	
Red Deer.....	1,625	20	20	1,820	500	
Westlock.....	1,705	5	6	1,800	40	9,080
BELLY RIVER						
Magrath.....	1,550	72	6	1,870	500	
Lethbridge.....	575	150	4	1,860	700	
Milk River.....	2,735	80	6	1,850	600	
Pakowki.....	2,590	41	6	1,800	300	
Taber.....	2,770	80	3	1,860	300	
Redcliff.....	2,015	1	4	1,780	5	
Brooks.....	2,270	30	4	1,780	100	
Steveville.....	2,015	3	3	1,780	10	
Empress.....	2,015	1	3	1,780	3	
Wainwright.....	1,080	2	5	1,780	10	
Pakan.....	3,025	2	5	1,780	10	
Rochester.....	1,150	1	6	1,800	7	
Slave.....	2,375	2	4	1,800	9	
High Prairie.....	3,020	2	4	1,800	9	2,563
EDMONTON FORMATION						
Pembina.....	2,630	50	25	1,870	1,500	
Edmonton.....	2,270	50	12	1,790	700	
Tofield.....	900	20	15	1,760	300	
Camrose.....	865	10	10	1,760	100	
Castor.....	2,880	20	15	1,770	300	
Ardley.....	720	20	10	1,820	200	
Big Valley.....	540	7	6	1,860	50	
Carbon.....	1,190	25	10	1,850	300	
Sheerness.....	1,765	20	10	1,800	200	
Drumheller.....	430	75	15	1,820	1,300	
Gleichen.....	2,125	10	5	1,780	60	
Champion.....	1,620	10	5	1,850	60	
Wetaskiwin.....	1,730	10	6	1,780	70	
Whitcourt.....	1,440	10	6	1,850	70	
Mountain House.....	940	2	4	1,800	9	5,219
Grand Total.....	72,435	1,974	...	...	...	46,562

Extract of Page D-3 and D-4 of the Alberta Submission to the Royal Commission on the Coal Industry of Canada.

THE MINES DIVISION

ANNUAL CONSUMPTION OF COAL IN CANADA 1902 - 1953

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1953:

Year	Canadian		Imported coal "entered for consumption"						Per Capita
	Short Tons	%	From U. S. A.		From Great Britain		Total		
			Short Tons	%	Short Tons	%	Short Tons	%	
1902	5,376,413	55.1	4,686,286		101,726		4,734,559	46.9	1,840
1903	6,005,735	47.3	6,520,931		184,593		6,678,450	52.7	2,245
1904	6,697,183	47.9	7,238,969		85,687		7,297,482	52.1	2,402
1905	7,032,661	49.4	7,233,738		68,500		7,215,446	50.6	2,374
1906	7,927,560	50.5	7,787,338		67,014		7,759,325	49.5	2,573
1907	8,617,352	45.0	10,588,697		54,325		10,549,503	55.0	2,990
1908	8,156,478	47.3	10,203,355		97,514		10,195,424	52.7	2,821
1909	8,913,378	47.9	9,805,253		67,671		9,711,826	52.1	2,739
1910	10,532,103	50.2	10,545,451		51,451		10,437,123	49.8	3,001
1911	9,822,749	40.5	14,510,129		48,983		14,424,949	58.5	3,364
1912	12,385,696	46.0	14,557,124		38,668		14,549,104	54.0	3,545
1913	13,450,188	42.6	16,145,769		37,825		16,135,387	47.4	4,138
1914	12,214,403	45.5	14,667,853		33,101		14,637,920	54.5	3,408
1915	11,500,480	48.1	12,450,796		15,098		12,406,212	51.9	2,995
1916	12,348,036	41.3	17,576,202		4,401		17,517,320	58.7	3,733
1917	12,313,603	37.2	20,848,009		9,451		20,810,132	62.8	4,110
1918	13,160,731	37.8	21,674,826		5,761		21,611,101	62.2	4,268
1919	11,611,168	40.3	17,292,913		344		17,256,269	58.7	3,471
1920	14,025,566	42.9	18,752,981		1,591		18,868,741	57.1	3,821
1921	12,715,734	41.1	18,300,081		344		18,268,387	58.9	3,525
1922	13,044,352	50.2	12,255,565		765,980		12,962,189	49.8	2,916
1923	15,070,962	41.6	20,417,239		572,570		20,967,971	58.2	4,000
1924	12,529,368	42.8	16,405,344		317,112		16,714,143	57.2	3,198
1925	12,125,290	42.6	15,744,957		604,117		16,331,971	57.4	3,062
1926	15,086,296	47.7	16,204,405		287,299		16,565,555	52.3	3,349
1927	16,944,983	46.7	17,266,434		907,220		18,177,303	53.3	3,541
1928	15,487,907	50.0	15,830,688		682,755		16,515,582	50.0	3,566
1929	16,367,461	48.0	16,760,452		843,502		17,724,132	52.0	3,401
1930	14,082,671	43.3	16,971,933		1,144,861		18,412,039	56.7	3,180

1931	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2,362
1932	11,212,701	49.0	9,889,866	1,727,716	11,654,492	51.0	22,887,193	2,177
1933	11,456,273	51.5	8,865,935	1,942,875	10,808,962	48.5	22,265,235	2,085
1934	13,236,406	51.1	10,680,710	1,981,116	12,661,168	48.9	25,887,574	2,392
1935	13,306,303	53.1	9,618,518	1,822,500	11,735,835	46.9	25,042,138	2,290
1936	14,508,642	55.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2,459
1937	15,172,729	51.5	12,574,572	1,211,052	14,266,585	48.5	29,441,514	2,648
1938	13,800,084	53.5	10,754,747	1,257,887	12,016,634	46.5	25,812,728	2,281
1939	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2,597
1940	16,666,234	49.5	15,509,778	1,514,488	17,036,090	50.5	33,702,524	2,960
1941	17,227,151	46.2	19,332,479	1,693,902	20,026,082	53.8	37,283,233	3,238
1942	17,725,761	42.4	25,735,534	868,010	24,122,916	57.6	41,848,677	3,551
1943	16,321,006	37.1	27,303,778	391,475	27,896,098	62.9	44,016,104	3,727
1944	15,680,808	35.7	27,948,008	218,511	28,166,201	64.3	45,827,009	3,659
1945	15,227,619	38.3	24,505,241	28,388	24,521,528	61.7	39,749,347	3,279
1946	16,502,508	39.0	25,639,541	101,680	25,740,704	61.0	42,243,212	3,434
1947	14,673,967	34.0	26,410,149	52,777	26,462,242	66.0	43,136,209	3,428
1948	16,528,028	36.0	30,295,641	162,550	30,458,917	64.0	47,382,945	3,678
1949	18,104,626	45.3	21,801,583	331,457	21,833,057	54.7	39,937,683	2,947
1950	18,224,944	40.6	26,224,893	423,874	26,649,049	59.4	44,873,993	3,241
1951	17,571,154	39.8	26,232,211	291,656	26,523,921	60.2	44,095,075	3,148
1952	16,749,316	40.5	24,248,804	356,032	24,603,769	59.5	41,353,105	2,866
1953	15,240,105	40.0	22,548,793	352,333	22,900,392	60.0	38,140,497	2,550

x The sum of Canadian coal mine sales, colliery consumption, coal supplied to employees and coal used in making coke, etc., less tonnage of coal exported.

"" Includes small tonnages from Countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada, and bituminous coal ex-warehoused for ship's store.

Imports of coal and coke briquettes not included.

THE MINES DIVISION

The following table shows the quantity of coke imported into Canada during the years 1952, 1953, and 1954 through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Province	1952		1953		1954	
	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum
Newfoundland.....	...	...	...	...	...	...
Nova Scotia.....	...	...	...	...	...	...
Quebec.....	6,211	106	5,576	...	3,250	...
Ontario.....	501,223	293,886	305,326	276,082	250,117	234,211
Manitoba.....	9,896	...	9,348	...	9,309	...
Saskatchewan.....	2,484	...	2,346	...	3,430	...
British Columbia.....	1,146	27	1,120	68	849	...
Alberta.....	...	...	...	...	...	26,085
Total.....	520,980	294,019	323,716	278,150	266,955	260,296

Imports of Coal for each year since 1919, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon.
BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. & Yukon	Total Canada
1919	7,611,682	483,991	59,253	1,063,793	9,218,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,903	12,336,709	43,517	1,517	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,415,522	76,833	1,484	1,447	13,966	11,563,467
1923	11,621,859	415,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	113,609	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	1,972,644	11,461,268	117,758	1,732	1,175	13,732	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	119,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	112,862	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,111	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	37,091	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,195	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,656
1934	8,472,113	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935	8,032,739	6,033	53,115	591,810	8,685,727	9,918	952	1,136	3,722a	9,549,457b
1936	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524d	10,200,253e
1937	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540g	12,241,270h
1938	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701k	9,567,334l
1939	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808m	9,903,613o
1940	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705x
1941	13,910,110	29,608	26,523	765,376	14,731,617	10,021	671	1,062	1,646	17,867,068
1942	11,397,298	292,783	51,942	1,212,815	15,554,838	21,568	773	789	1,573	20,807,005
1943	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	732	1,002	1,611	24,393,798
1944	15,654,562	271,617	364,674	2,195,070	18,485,923	16,255	556	935	1,236	24,513,527
1945	14,236,472	262,266	290,850	1,320,728	16,110,322	20,397	642	1,221	1,682	21,176,811xx
1946	11,272,178	331,674	322,295	1,946,218	16,872,365	16,265	686	1,038	1,790	22,000,398xxx
1947	16,827,356	340,450	396,647	1,972,434	19,536,887	28,416	560	806	1,866	25,811,440xxxx
1948	17,774,268	3,142,251*	.....	.....	20,916,519	78,047	485	.....	1,886	29,907,103xxxxx
1949	11,848,120	1,385,640*	.....	.....	13,233,760	45,609	***	124	6,114	15,799,509
1950	17,224,711	1,482,394*	.....	.....	18,707,105	32,891	250	.....	3,230	22,593,468
1951	16,682,920	1,868,498*	.....	.....	18,551,418	28,847	459	.....	781	22,459,357
1952	15,304,729	1,920,402*	.....	.....	17,225,131	37,040	446	.....	540	20,697,298
1953	15,791,268	1,041,816*	.....	.....	16,833,084	43,713	549	.....	465	19,485,972
1954	12,528,702	937,098*	.....	.....	13,465,800	36,922	497	.....	137	15,695,883

See Note over page.

x Consists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.

xx Consists of 21,176,805 tons from the United States and 6 tons from Great Britain.

xxx Consists of 22,000,311 tons imported from the United States and 81 tons from Great Britain.

xxxx Consists of 25,839,917 tons imported from the United States, 1,087 tons imported from Great Britain, 431 tons from Belgium and 5 tons from Alaska

xxxxx Includes briquettes and lignite coal.

* Includes Fort Frances and Fort William.

ANTHRACITE COAL

1919	2,977,915	119,234	559	546,442	3,444,148	12,908	...	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,241,464	17,509	206	517	75	4,912,964
1921	2,899,189	138	138	198,108	3,070,217	33,473	264	66	261	4,587,370
1922	1,806,924	21,507	12	36,018	1,644,461	14,715	231	...	61	2,693,967
1923	3,061,779	28,229	129	54,329	3,144,766	56,856	2,291	...	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	...	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,049	34,396	702	30	246	5,798,744
1926	2,488,674	...	56	60,810	2,619,494	17,990	464	...	5,202	4,242,932
1927	2,123,515	...	51	79,283	2,202,849	15,885	494	...	3,812	4,063,619
1928	2,179,022	...	42	57,494	2,236,588	10,130	579	...	2,241	3,737,333
1929	2,246,063	352	303	52,869	2,299,087	9,180	365	...	597	4,019,917
1930	2,080,457	...	224	45,241	2,125,322	8,323	367	...	1,123	4,266,090
1931	1,615,643	...	...	18,302	1,633,945	3,695	...	...	33	5,178,141
1932	1,650,756	...	3	12,677	1,268,435	3,800	...	...	702	3,138,167
1933	1,129,041	...	8	7,942	1,137,791	5,689	57	75	3,667	3,035,613
1934	1,374,881	...	3,030	7,934	1,385,845	6,086	...	...	282	3,637,309
1935	1,370,119	...	19	9,455	1,379,593	5,862	40	...	1,600	3,461,318
1936	1,436,613	...	135	16,350	1,453,098	5,884	58	...	1,151	3,630,040
1937	1,608,653	...	8	21,082	1,628,713	5,639	66	34	61	3,572,268
1938	1,697,601	...	69	16,050	1,715,720	4,674	39	...	280	3,714,001
1939	2,043,142	...	297	18,459	2,061,898	4,696	...	33	...	3,977,805p
1940	2,033,585	...	...	10,571	2,044,156	4,466	34	...	236	3,964,863q
1941	2,343,406	...	...	...	2,362,433	10,021	...	16	30	3,940,859
1942	2,807,479	...	...	...	2,816,165	7,093	...	23	...	4,802,023
1943	2,502,024	...	...	...	2,513,139	16,538	...	7	...	4,468,519
1944	2,528,190	...	...	...	2,535,976	9,723	...	4	...	4,413,227
1945	2,006,208	...	...	...	2,010,182	6,198	1	1	6,200	3,411,424r
1946	2,776,497	...	42	2,982	2,792,381	11,718	...	...	...	4,639,347xx
1947	2,912,629	1,831	513	13,394	2,924,411	10,797	...	11	51	4,464,007xxx
1948	3,287,668	56,708	126	9,825	3,344,566	3,197	...	...	2,116	5,142,529xxxx
1949	53,753	...	...	...	2,466,557	1,935	302	...	...	4,080,147
1950	2,720,328	28,348	...	...	2,748,676	2,500	270	...	...	4,467,111
1951	2,435,439	27,619	...	...	2,465,058	790	...	...	5	3,891,832
1952	2,333,816	9,552	...	...	2,343,368	7	...	...	2	3,782,973
1953	1,786,019	3,319	...	...	1,789,358	187	...	...	3	2,931,599
1954	1,705,334	12,333	...	...	1,715,767	311	...	...	...	2,721,643

x Consists of 3,385,042 tons imported from the United States and 29,382 from Great Britain.

xx Consists of 4,537,852 tons from the United States and 101,496 from Great Britain.

xxx Consists of 4,412,285 tons imported from the United States and 51,722 from Great Britain.

xxxx Consists of 4,966,775 tons imported from the United States and 175,764 from Great Britain.

■ Includes Fort Frances and Fort William.

- (a) Includes imports into the Yukon Territory of 10 tons in July and 10 in October.
- (b) Consists of 9,168,428 tons imported from the United States, 380,645 tons from Great Britain, 43 tons from Alaska, 285 tons imported from Norway, 65 tons from Esthonia, and 1 ton from Poland.
- (c) Consists of 1,670,085 tons from United States, 1,454,521 tons from Great Britain, 205,045 tons from Germany, 67,220 tons from Belgium and 54,447 tons from French Indo-China.
- (d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 in June, 45 in July, 2 in October.
- (e) Consists of 10,042,127 tons imported from the United States, 149,905 tons from Great Britain, 9,421 tons from Germany, 361 tons from Norway, 124 tons from Denmark, 45 tons from Sweden, 35 tons from the Netherlands, 134 tons from Esthonia and 286 tons from Newfoundland.
- (f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons from Great Britain, 359,994 tons from Germany, 33,543 tons from Belgium, 122,572 tons from French Indo-China, 16,231 tons from the Netherlands and 1,120 tons from China.
- (g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in June, 45 tons in July and 2 tons in October.
- (h) Consists of 12,333,376 tons imported from the United States, 56,075 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Esthonia.
- (j) Consists of 2,003,317 tons imported from United States, 1,134,855 tons from Great Britain, 258,257 tons from Germany, 8,131 tons from Belgium, 154,495 tons from Russia and 78 tons from Morocco.
- (k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.
- (l) Consists of 9,644,020 tons imported from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, and 417 tons from Japan.
- (m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands and 30,302 tons from French Indo-China.
- (n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.
- (o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain and 20 tons from Norway.
- (p) Consists of 2,603,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany and 45,537 tons from French Indo-China.
- (q) Consists of 2,643,688 tons from the United States and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Canada, by months during 1954,

BITUMINOUS COAL

	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
January.....	253,046	5,688	258,734	6,196	52	...	7	358,392
February.....	339,100	3,583	342,683	4,765	...	...	40	456,224
March.....	281,154	2,847	284,001	3,371	41	...	...	385,578
April.....	964,363	46,964	1,031,347	1,872	...	...	...	1,183,212
May.....	1,589,560	42,756	1,632,316	799	155	...	...	1,882,801
June.....	1,462,183	91,381	1,553,564	463	103	...	32	1,775,578
July.....	1,282,282	121,919	1,404,201	329	52	...	45	1,635,559
August.....	1,597,433	163,712	1,761,145	1,817	...	...	...	2,008,342
September.....	1,419,012	165,157	1,584,169	4,408	43	...	...	1,807,084
October.....	1,558,104	135,689	1,693,793	4,875	...	...	...	1,939,644
November.....	1,846,747	118,793	1,965,540	3,551	...	...	7	1,700,947
December.....	415,718	38,589	454,307	4,656	51	...	5	562,722
Total.....	12,528,702	937,098	13,465,800	56,922	497	...	137	15,695,885

ANTHRACITE COAL

January.....	162,273	...	162,273	...	...	...	...	223,790
February.....	125,595	...	125,595	41	...	...	...	202,864
March.....	98,617	...	98,617	...	...	...	...	142,586
April.....	87,773	...	87,773	...	...	...	...	147,433
May.....	87,861	3,137	90,998	...	...	...	...	171,840
June.....	133,301	...	133,301	...	...	...	...	229,433
July.....	108,592	...	108,592	220	...	...	...	174,891
August.....	151,485	3,118	154,543	...	...	...	...	242,733
September.....	182,976	...	182,976	...	...	...	...	285,539
October.....	201,114	3,082	204,196	...	...	...	...	325,502
November.....	201,599	2,996	204,595	42	...	...	...	336,118
December.....	162,508	...	162,508	...	...	...	...	238,914
Total.....	1,703,434	12,333	1,715,767	311	...	...	...	2,721,643

THE MINES DIVISION

GRAND TOTAL IMPORTATIONS

Bituminous	12,528,702 1,706,434	937,098 12,535	13,465,800 1,715,767	36,922 311	497 ...	...	137 ...	15,695,883 2,721,643
Anthracite								
Total	14,232,136	949,431	15,181,567	37,233	497	...	137	18,417,526

MINERAL PRODUCTION IN ALBERTA DURING 1952 and 1953

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada.

	1952		1953	
	Quantity	Value	Quantity	Value
METALLICS;				
Gold, fine ounces	111	3,804	65	2,237
Silver, fine ounces	10	8	6	5
NON-METALLICS;				
Coal, short tons	7,194,757	39,908,362	5,917,474	32,110,429
Natural Gas, M. Cu. Ft.	79,149,895	5,956,242	89,651,605	6,723,870
Quartz, tons	373	7,446	...	...
Petroleum, crude, barrels	58,915,723	139,512,432	76,816,383	193,761,644
Salt, tons	24,380	614,522	24,885	601,515
CLAY PRODUCTS AND OTHER				
STRUCTURAL MATERIALS;				
Cement, barrels	1,886,544	4,765,686	3,096,664	7,915,227
Clay Products .....	...	1,964,618	...	2,135,085
Lime	30,006	415,348	29,263	430,924
Sand and gravel, tons	5,066,403	3,590,687	7,651,261	5,097,720
Stone, tons	22,773	92,499	18,833	84,639
Total .....	...	196,811,654	...	248,863,295

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE
PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1954.

SUMMARY OF STATISTICS

Number of short tons of coal produced.....	4,859,136
Number of short tons of briquettes made.....	635,501
Number of short tons of shale, clay and limestone produced.....	1,114,155
Number of quarries in operation during the year.....	12
Number of mines in operation during the year.....	136
Number of mines opened during the year.....	5
Number of mines re-opened during the year.....	51
Number of mines closed during the year.....	62
Number of mines abandoned during the year.....	35
Number of mines in operation at December 31st, 1954.....	116
50 mines or 36.76% of the total operating produced.....	.31% of the output
27 mines or 19.85% of the total operating produced.....	1.50% of the output
11 mines or 8.09% of the total operating produced.....	1.61% of the output
20 mines or 14.71% of the total operating produced.....	9.03% of the output
9 mines or 6.62% of the total operating produced.....	13.50% of the output
8 mines or 5.86% of the total operating produced.....	20.74% of the output
3 mines or 2.21% of the total operating produced.....	10.78% of the output
7 mines or 5.15% of the total operating produced.....	36.27% of the output
1 mine or .73% of the total operating produced.....	6.26% of the output
Average number of persons employed above ground.....	1,254
Average number of persons employed below ground.....	2,733
Average number of persons employed at strip mining.....	732
Average number of days worked.....	155.5
Total number of manshifts.....	943,558
Number of separate accidents causing loss of life.....	8
Number of fatal accidents above ground.....	4
Number of fatal accidents below ground.....	4
Number of serious accidents above ground.....	7
Number of serious accidents below ground.....	44
Number of slight accidents above ground.....	10
Number of slight accidents below ground.....	31
Number of fatal accidents in quarries.....	2
Number of serious accidents in quarries.....	1
Number of slight accidents in quarries.....	1
Total purchased electric power (Kilowatt hours).....	50,688,957
Number of prosecutions instituted.....	19
Number of provisional overman's certificates issued.....	46
Number of provisional electricians' certificates issued.....	6
Number of provisional foremen's certificates issued.....	15
Number of provisional blasters' (Strip Mine) certificates issued.....	2
Number of provisional miners' certificates issued.....	69
Number of miners' permits issued.....	241
Number of miners' certificates issued.....	151
Number of miners' duplicate certificates issued.....	25
Number of First Class Certificates issued.....	2
Number of Third Class Certificates issued.....	4
Number of Mine Surveyors' Certificates issued.....	4
Number of First Class Mine Electricians' Certificates issued.....	3
Number of Second Class Mine Electricians' Certificates issued.....	1
Number of Strip Mine Managers' Certificates issued.....	3
Number of Strip Mine Foremen's Certificates issued.....	9
Number of Strip Mine Blasters' Certificates issued.....	4
Number of Quarry Blasters' Certificates issued.....	11
Number of First Class Certificates issued up to December 31st, 1954.....	313
Number of Second Class Certificates issued up to December 31st, 1954.....	616
Number of Third Class Certificates issued up to December 31st, 1954.....	1,839
Number of Mine Surveyors' Certificates issued up to December 31st, 1954.....	244
Number of First Class Mine Electricians' Certificates issued up to December 31/54.....	162
Number of Second Class Mine Electricians' Certificates issued up to Dec. 31/54.....	32
Number of Strip Mine Managers' Certificates issued up to December 31st, 1954.....	158
Number of Strip Mine Foremen's Certificates issued up to December 31st, 1954.....	208
Number of Strip Mine Blasters' Certificates issued up to December 31st, 1954.....	57
Number of Quarry Blasters' Certificates issued up to December 31st, 1954.....	17
Number of Miners' Certificates issued up to December 31st, 1954.....	20,692

Particulars of Work Done in Quarries in the Province During 1954.

Number of short tons of shale, clay and limestone produced.....	1,114,155
Number of short tons of shale, clay and limestone imported.....	7,087
Number of short tons of shale used making bricks.....	100,700
Number of short tons of shale used making hollow tile.....	30,246
Number of short tons of shale used making building products.....	18,478
Number of short tons of limestone used making cement.....	893,865
Number of short tons of limestone used making lime.....	52,353
Number of short tons of limestone used making rock dust.....	25,600
Total number of shifts worked.....	181,530
Total number of men employed.....	414
Number of pounds of explosives used.....	285,600
Number of shots fired.....	18,475
Number of miss-shots.....	32
Total number of bricks made.....	34,721,849
Total number of bricks put to stock.....	2,908,860
Total number of bricks lifted from stock.....	1,217,047

Bricks sold for use in:	Alberta.....	21,561,294
	Saskatchewan.....	6,320,642
	British Columbia.....	3,576,200
	Manitoba.....	1,394,900
	Ontario.....	130,000
	Elsewhere.....	<u>47,000</u>
	Total.....	33,030,036

Number of tons of hollow tile made.....	34,869
Number of tons of hollow tile put to stock.....	287
Number of tons of hollow tile lifted from stock.....	218
Number of tons of hollow tile sold.....	34,800

THE MINES DIVISION

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901.....	346,649	.....
1902.....	510,674	.....
1903.....	622,939	.....
1904.....	782,931	.....
1905.....	811,228
1906.....	1,385,000
1907.....	1,834,745
1908.....	1,845,000
1909.....	2,174,329
1910.....	3,036,757
1911.....	1,694,564
1912.....	3,446,349
1913.....	4,306,346
1914.....	3,821,739
1915.....	3,434,891
1916.....	4,648,604
1917.....	4,863,414
1918.....	6,148,620
1919.....	5,022,412
1920.....	6,908,923
1921.....	5,937,195
1922.....	5,976,432
1923.....	6,866,923
1924.....	5,203,713
1925.....	5,883,394
1926.....	6,508,908
1927.....	6,936,780
1928.....	7,334,179
1929.....	7,147,250
1930.....	5,755,911
1931.....	4,563,309
1932.....	4,867,984
1933.....	4,714,784
1934.....	4,748,848
1935.....	5,462,973
1936.....	5,696,375
1937.....	5,551,682
1938.....	5,230,015
1939.....	5,518,105
1940.....	6,205,088
1941.....	6,970,064
1942.....	7,754,279
1943.....	7,677,982
1944.....	7,427,433
1945.....	7,801,248
1946.....	8,824,455
1947.....	8,074,596
1948.....	8,111,013
1949.....	8,616,983
1950.....	8,118,206
1951.....	7,661,276
1952.....	7,194,472
1953.....	5,917,423
1954.....	4,859,136

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 to 1964 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke Production	Briquettes	Coke
1901	.....	531,907	.....	.....	14,742	.....	.....	.....
1902	.....	494,087	.....	.....	16,587	.....	.....	.....
1903	.....	617,754	.....	.....	5,185	.....	.....	.....
1904	.....	759,568	.....	.....	23,363	.....	.....	.....
1905	.....	972,686	.....	.....	43,653	.....	.....	45,640
1906	602,780	.....	.....	545,623	235,597	71,292	.....	59,844
1907	635,335	.....	.....	369,295	286,115	103,850	.....	73,782
1908	584,334	.....	.....	1,011,571	249,095	112,887	49,585	75,657
1909	763,673	.....	.....	1,197,399	213,257	128,387	36,261	87,812
1910	876,011	.....	.....	1,896,961	261,785	145,104	89,785	121,578
1911	964,700	.....	.....	649,745	80,119	196,249	108,996	35,984
1912	1,341,389	.....	.....	1,926,371	178,589	61,591	48,200	105,684
1913	1,763,225	.....	.....	2,874,401	168,720	170,818	90,000	85,187
1914	1,697,401	.....	.....	1,958,367	170,971	104,012	130,861	29,058
1915	1,682,322	.....	.....	1,626,237	125,732	44,249	109,082	23,826
1916	2,172,801	.....	.....	2,335,259	140,544	38,878	83,180	107,959
1917	2,637,829	.....	.....	2,206,668	118,717	67,105	107,959	41,950
1918	3,035,051	.....	.....	2,892,354	131,225	61,905	93,618	31,850
1919	2,611,009	.....	.....	2,826,767	85,616	55,452	100,470	32,658
1920	3,359,309	.....	.....	3,419,021	130,594	.....	70,083	.....
1921	2,943,141	.....	.....	2,897,380	96,674	.....	101,693	.....
1922	3,086,669	.....	635,073	2,214,273	40,417	.....	62,466	.....
1923	3,161,741	.....	463,461	3,241,614	107	.....	33,663	.....
1924	3,096,650	.....	591,946	1,515,107	.....	.....	39,638	.....
1925	3,156,359	.....	561,835	2,145,200	.....	.....	.....	.....
1926	3,160,029	.....	490,371	2,856,508	.....	.....	791	.....
1927	3,357,171	.....	595,190	2,984,419	.....	287	11,381	173
1928	3,376,200	.....	740,498	3,215,481	.....	.....	20,649	.....
1929	3,565,749	.....	668,108	3,093,393	.....	.....	24,768	.....
1930	2,874,090	.....	803,331	2,278,490	.....	.....	28,167	.....
1931	2,245,553	.....	471,389	1,846,357	.....	.....	24,111	.....
1932	2,574,785	.....	569,479	1,733,720	.....	.....	15,102	.....
1933	2,434,047	.....	554,141	1,726,596	.....	4,591	13,582	2,183
1934	2,295,556	.....	537,542	1,915,740	.....	75,275	14,935	49,279
1935	2,647,312	.....	556,456	2,248,625	.....	91,745	15,906	59,703
1936	.....	.....	.....	.....	.....	95,233	18,812	53,428

THE MINES DIVISION

1936.....	2,841,231	.....	566,486	2,288,688	.....	97,353	21,015	65,349
1937.....	2,631,150	.....	506,529	2,124,621	.....	99,537	27,044	65,967
1938.....	2,455,263	.....	488,912	2,287,860	.....	103,498	39,239	68,692
1939.....	2,449,199	.....	612,105	2,556,801	.....	103,191	48,510	68,913
1940.....	2,637,205	.....	598,686	3,069,197	.....	105,926	66,127	70,763
1941.....	2,713,254	.....	595,453	3,871,337	.....	105,390	126,188	70,354
1942.....	3,213,113	.....	733,547	3,807,619	.....	107,410	137,906	71,572
1943.....	3,416,037	.....	791,952	3,469,993	.....	101,132	222,106	67,848
1944.....	3,146,801	.....	729,427	3,551,205	.....	101,833	233,592	67,821
1945.....	.....	.....	3,200,485	4,600,763	.....	64,280	250,274	43,180
1946.....	.....	.....	3,434,859	5,388,596	.....	64,878	275,646	43,206
1947.....	.....	.....	3,237,220	4,837,376	.....	81,128	282,898	52,627
1948.....	.....	.....	3,190,217	4,820,796	.....	76,795	321,674	45,718
1949.....	.....	.....	3,121,666	5,495,327	.....	91,861	460,643	54,922
1950.....	.....	.....	3,325,186	4,793,020	.....	23,079	409,855	16,837
1951.....	.....	.....	3,001,987	4,659,289	.....	6,957	345,768	3,959
1952.....	.....	.....	2,815,850	4,378,622	.....	3,474	661,862	574
1953.....	.....	.....	2,899,924	3,817,499	.....	.....	665,566	.....
1954.....	.....	.....	2,456,951	2,402,185	.....	.....	635,501	.....

1901 to 1905 includes outputs from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six months and one-half.

≈ 1,742 tons of Fabriccoal, in 1951, 8,266 tons in 1952, and 945 tons in 1953.

Total Output of Coal disposed of during 1954

Areas	Sold for Consumption in:							Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Sask- atchewan	British Columbia	Manitoba	Ontario	United States	Sold to Railroad Compan- ies									
Bituminous S. Bituminous	145856 918961	49227 945955	528524 362670	88338 204117	60002 25834	32906 218	743743 ...	1649296 2457755	98878 2809	1158 ...	606917 ...	904034 15547	116123 5593	881095 24670	90126 83	2402185 2456951
Total	1064817	995882	891194	292455	85836	33124	743743	4107051	98687	1158	606917	919581	121716	905765	90209	4859136
Briquettes Coke Fabriccoal	10452	3796	32763	33905	21846 ... ...	... ... ...	530828	633590	107 ... ...	... ... ...	... ... ...	45730 ... ...	... ... ...	42541	1385	635501

THE MINES DIVISION

How the total Output of BITUMINOUS COAL from the Province was disposed of by areas during 1954

Areas	Sold for Consumption in:								Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroads Companies								
Group 1: Cascade Highwood Nordegg Group 2: Crownest Xtn. Park Oldman Group 3: Coalspur Halcourt Lethbridge Pekisko Pincher Fr. Creek Saunders No Area	858 ... 447 28372 555 ... 19730 87308 4437 116 195 3064 ...	1695 5072 43 ... 4447 34605 4365 ...	7425 112394 96031 ... 266925 23608 1842 ... 290 ...	3921 33110 16472 ... 26589 4971 40 ... 2935 ...	10888 11100 2812 ... 28016 2806 4080 ...	... ... ... ... ... ... ... ... ... ... ... ...	... ... ... 31936 970	123356 489757 75541 ... 55089 ... 153298 6319 116 495 11734 ...	7442 ... 6001 11774 13236 ... 54693 1775 1257 ...	978 180	75263 ... 114424 357025 60385	144828 ... 3189 688095 55819 6284 2 5817 ...	... ... ... 99018 ... 17004 72 29	142816 ... 3879 692590 30637 6636 ... 73 14464 ...	... ... ... 89596 ... 530	233538 ... 120002 1086247 265075 ... 517815 483 154793 6319 147 422 17344 ...
Total:	115856	49927	528524	88338	60002	..	32906	743743	95878	1158	606917	904034	116123	881095	90126	2402185

How the total output of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1954

Areas	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used making Fabriloal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatch- ewan	British Columbia	Manitoba	Ontario	United States								
Group 4:														
Ardley	61913	...	...	...	...	...	61913	...	...	...	1985	...	...	66898
Big Valley	1626	...	...	...	...	...	1626	...	...	...	...	...	...	1626
Brooks	21614	19227	6067	6158	1081	...	54480	...	...	1308	1126	3954	...	53260
Carbon	44311	...	...	607	...	...	44918	...	...	...	240	...	...	45188
Champion	6047	...	...	...	...	...	6047	...	...	...	...	...	...	6047
Drumheller	208831	560881	111791	128569	21093	133	1061298	2591	...	13987	959	20211	...	1058594
Edmonton	232195	3483	396	3884	435	...	240393	218	...	...	...	185	...	240446
Gleichen	9150	...	...	...	...	...	9150	...	...	...	...	...	...	9150
Pembina	74302	43367	111987	2247	484	...	262387	...	...	15	42	80	...	262364
Taber	20264	8266	8981	3514	61	...	41136	...	...	46	...	...	...	41182
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	962	...	...	...	...	...	962	...	...	...	...	...	...	962
No Area	30	...	...	...	...	...	30	...	...	...	...	...	...	30
Group 5:														
Camrose	34082	1888	6564	213	218	85	43050	...	...	111	...	...	...	43191
Castor	122391	225600	50315	43515	771	...	442612	...	...	50	776	...	...	443138
Parkville	44	...	...	...	...	...	44	...	...	...	...	...	...	44
Redcliff	4022	...	...	...	...	...	4022	...	...	...	...	...	...	4022
Sheerness	24333	61683	5267	8861	1069	...	101193	...	...	...	...	...	...	101193
Tofield	39479	21560	1302	6189	599	...	69129	...	...	...	...	...	...	69129
Westlock	10335	...	...	...	...	...	10335	...	...	...	165	230	83	10187
Total:	918961	945955	362670	204117	25834	218	2457795	2809	...	15547	5593	24670	83	2456951

THE MINES DIVISION

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1954

Months	Sold for Consumption in:						Total Sales	Used under Coll- ery Boilers	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States							
January	161409	125562	46986	36011	4213	51	377235	370	1827	553	7642	...	372343
February	91228	91313	31055	16691	2185	42	232514	300	2178	369	2908	...	232453
March	69715	49786	24021	6947	835	45	151379	338	484	2246	4421	...	150026
April	16811	57963	29679	7131	785	37	144712	263	113	133	457	...	144764
May	21682	44208	25537	5308	645	...	97380	144	716	13	259	...	97994
June	21248	54632	22854	6804	855	...	106393	125	581	16	931	...	106184
July	12074	28035	12621	1707	394	...	54831	68	547	63	1122	...	54387
August	22881	50180	18382	8904	1699	...	102046	125	537	72	1232	...	101548
September	63964	85713	31492	24752	4015	43	210009	177	1005	523	1266	...	210448
October	113625	116365	40892	26646	3793	...	301321	254	1709	547	1482	...	302339
November	159641	121921	37274	30249	3485	...	322570	285	3918	533	1354	...	355897
December	129620	120277	41877	32661	2930	...	327365	360	1932	525	1586	28	320568
Total:	918961	945955	362670	204117	25634	218	2457755	2809	15547	5593	24670	83	2456951
% of Total Sales	37.39	38.49	14.76	8.30	1.05	.01							

Amount of Coal Sold During the Years 1915 to 1954 inclusive for consumption in:

Year	Alberta	B.C.	Sask.	Manitoba	Ontario	N.W.T.	Quebec	U.S.A.	To Railroads	Alaska	Total
1915.....	2,129,130	54,860	695,898	64,816	...	...	...	25,047	...	...	2,969,761
1916.....	2,866,670	86,413	1,007,765	97,265	...	...	...	61,092	...	...	4,119,205
1917.....	2,813,413	76,397	1,139,771	249,872	...	...	...	93,061	...	...	4,372,584
1918.....	3,440,154	101,189	1,372,439	511,168	629	...	...	183,276	...	...	5,558,865
1919.....	2,991,110	95,461	1,115,329	314,290	308	...	...	121,212	...	...	4,837,710
1920.....	1,647,202	128,850	1,310,146	600,962	13,911	...	30	153,610	2,516,555	...	6,571,266
1921.....	1,415,861	116,089	1,294,441	495,368	9,898	...	...	183,823	2,023,204	...	5,488,704
1922.....	1,459,942	107,920	1,371,249	520,518	21,573	...	102	105,514	2,076,291	...	5,647,109
1923.....	1,382,788	108,326	1,223,454	533,639	52,834	...	...	89,657	3,110,121	...	6,514,219
1924.....	1,431,327	114,186	1,189,788	510,407	16,525	...	...	39,142	1,613,574	...	4,914,949
1925.....	1,440,035	117,037	1,297,653	509,655	28,331	...	...	40,507	2,139,716	...	5,573,431
1926.....	1,325,290	127,858	1,296,181	591,267	74,559	...	221	48,216	2,706,440	...	6,170,032
1927.....	1,508,089	187,028	1,427,904	612,542	22,680	...	...	45,160	2,759,765	...	6,863,168
1928.....	1,409,476	262,198	1,511,141	600,125	44,265	...	...	62,265	3,054,239	...	6,938,708
1929.....	1,446,565	236,840	1,455,213	598,647	55,335	...	33	51,835	2,923,827	...	6,788,076
1930.....	1,234,382	227,395	1,221,542	541,537	29,784	...	32	44,291	2,120,237	...	5,419,190
1931.....	1,020,694	171,610	905,574	442,761	27,036	...	100	30,434	1,668,461	...	4,266,680
1932.....	1,134,311	136,188	1,097,382	497,006	20,583	...	135	27,366	1,619,921	...	4,532,892
1933.....	1,123,357	120,911	1,082,910	443,681	35,437	...	32	18,449	1,600,061	...	4,304,836
1934.....	1,087,898	127,638	986,639	391,132	55,947	31	...	13,739	1,697,860	...	4,380,874
1935.....	1,246,959	221,758	1,120,816	435,613	64,659	...	...	24,712	1,960,555	...	5,075,272
1936.....	1,356,690	244,928	1,238,730	450,740	65,866	...	...	27,397	1,969,589	...	5,353,940
1937.....	1,326,054	269,023	1,085,812	437,954	62,521	82	...	41,328	2,028,389	...	5,251,163
1938.....	1,276,932	238,435	1,011,207	413,663	74,111	85	...	35,607	1,871,852	...	4,920,790
1939.....	1,241,616	239,227	1,044,367	409,046	90,208	...	...	33,139	2,109,684	...	5,167,287
1940.....	1,311,644	237,642	1,019,035	354,857	133,567	14	...	35,354	2,720,793	...	5,812,926
1941.....	1,335,606	304,928	1,062,913	430,663	231,208	...	...	35,742	3,090,290	...	6,481,748
1942.....	1,474,795	652,222	1,259,669	580,336	231,566	...	...	98,197	2,864,586	...	7,171,063
1943.....	1,560,212	864,911	1,455,612	627,368	1,190	...	...	2,038,555	...	...	7,071,753
1944.....	1,424,293	678,960	1,225,075	533,027	10,163	...	...	268,664	2,583,101	1,064	6,742,643
1945.....	1,557,940	866,396	1,242,001	541,682	276,614	...	...	162,698	2,416,503	...	7,088,988
1946.....	1,608,296	982,413	1,449,002	665,733	349,137	...	...	137,271	2,893,207	...	8,136,694
1947.....	1,671,130	899,403	1,475,006	588,414	165,898	...	...	91,235	2,504,604	...	7,433,989
1948.....	1,593,629	946,700	1,413,283	625,056	202,820	...	68	84,492	2,312,273	...	7,577,914
1949.....	1,614,306	891,132	1,232,890	629,459	187,976	...	...	45,972	3,012,425	...	7,617,632
1950.....	1,672,519	873,558	1,366,723	586,920	315,563	...	...	105,765	2,308,365	...	7,226,413
1951.....	1,427,114	898,533	1,352,162	492,737	185,783	...	...	80,270	2,443,326	...	6,891,212
1952.....	1,234,307	1,021,484	1,241,716	398,924	126,381	...	...	71,817	2,065,365	...	6,147,582
1953.....	1,045,482	859,385	1,034,594	274,758	73,117	...	...	47,119	1,625,793	...	4,960,238
1954.....	1,064,817	891,194	995,882	292,455	85,336	...	...	33,124	743,743	...	4,107,051

NOTE: Previous to 1920 Railroad Coal was included in Total Sales. Included in the above totals are 49,298 tons for Ships Bunkers in 1943, 20,296 tons in 1944, 20,394 tons in 1945, 21,770 tons in 1946, 4,107 tons in 1947. The above also includes 37,865 tons shipped to China in 1946, 27,731 tons in 1947, also 14,461 tons to Japan in 1947, 200,947 tons in 1948, 3,475 tons to China in 1949, 44,317 tons to Japan in 1951, 1,588 tons in 1952.

Coal Produced by Years from 1950 to 1954,

BITUMINOUS COAL FIELD

Areas	1950	1951	1952	1953	1954
Group 1:					
Cascade.....	346,339	337,847	288,445	238,608	233,538
Highwood.....	....	...	56	...	...
Nordegg.....	154,272	9,934	293,426	275,800	120,002
Group 2:					
Crowsnest.....	2,043,669	2,391,251	2,167,738	1,697,581	1,086,247
Mountain Park.....	982,667	770,301	566,215	482,681	265,075
Oldman.....	...	...	...	...	...
Group 3:					
Coalspur.....	794,957	751,909	748,186	636,086	517,815
Halcoourt.....	297	936	1,057	128	483
Lethbridge.....	406,502	335,271	271,564	163,392	154,793
Morley.....	302	...	...	...	...
Pekisko.....	3,096	5,495	7,990	6,712	6,519
Pincher.....	734	5	...	86	147
Prairie Creek.....	297	1,126	1,881	1,102	422
Red Deer.....	...	71	38	...	...
Saunders.....	59,898	55,143	32,026	15,323	17,344
No Area.....	...	...	...	...	...
Total.....	4,793,020	4,659,289	4,378,622	3,517,499	2,402,185

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley.....	34,757	53,091	47,001	46,847	66,898
Big Valley.....	33,489	17,568	16,090	1,973	1,626
Brooks.....	86,369	75,648	47,046	48,699	53,260
Carbon.....	68,529	56,098	48,751	40,507	45,188
Champion.....	6,372	7,164	5,627	5,679	6,047
Drumheller.....	1,636,424	1,566,102	1,371,899	1,028,067	1,058,594
Edmonton.....	495,636	356,770	275,058	233,061	240,446
Gleichen.....	16,896	13,926	11,420	9,303	9,150
Milk River.....	733	408	368	...	...
Pembina.....	197,901	164,682	242,672	270,732	262,364
Taber.....	136,267	121,405	84,266	43,553	41,182
Wetaskiwin.....	1,459	872	812	220	...
Whitcourt.....	850	820	944	565	962
No Area.....	...	...	...	84	30
Group 5:					
Camrose.....	96,101	80,929	54,152	52,244	43,191
Castor.....	218,224	273,085	418,685	426,235	443,438
Pakowki.....	494	243	321	45	44
Redcliff.....	14,120	5,458	4,658	4,339	4,022
Rochester.....	261	193	...	...	...
Sheerness.....	62,919	56,004	59,879	96,722	101,193
Slave.....	88	...	...	...	...
Tofield.....	205,755	159,971	115,277	80,719	69,129
Westlook.....	12,542	12,550	10,924	10,350	10,187
Total.....	3,325,186	3,001,987	2,815,850	2,399,924	2,456,951

LUMP COAL

[illegible]

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	21	9	14	12	6	3	1	4	10	18	9	28	135
Highroad	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordeg	29	19	28	24	13	14	2	6	18	17	32	38	240
Group 2:													
Grossnest	929	552	904	484	509	525	448	690	737	1131	727	988	8594
Min. Park	12	4	8	8	4	4	...	5	...	...	11	10	66
Oldman	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Goalspur	584	404	352	323	100	106	76	148	556	417	406	431	3903
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Leithridge	933	448	364	444	194	269	110	310	559	761	705	620	5687
Pelisko	172	135	29	26	8	17	4	...	90	68	94	50	693
Pincher	...	...	...	...	...	...	...	...	...	...	3	6	9
Pr. Creek	...	45	15	23	...	...	23	...	...	...	...	...	...
Saunders	386	181	92	69	116	155	98	131	144	159	201	180	1912
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3066	1797	1806	1383	950	1093	732	1294	2114	2571	2188	2355	21349

THE MINES DIVISION

**Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta;
MINE RUN**

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	1360	619	286	...	...	...	...	40	725	1276	1818	1380	7504
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	2171	871	790	597	181	122	40	359	1451	3031	3029	2352	14994
Carbon	1104	233	259	54	10	28	41	26	457	1028	1120	398	4758
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	1239	663	180	98	366	861	364	485	1348	1385	1524	1218	9731
Edmonton	2965	1162	646	522	70	110	76	509	1477	1787	3174	2503	15001
Gleichen	1271	532	801	359	136	97	172	256	462	1219	1236	1072	7613
Pembina	322	191	170	61	...	...	...	...	6	160	611	160	1681
Taber	40	10	...	...	...	...	...	20	...	10	22	10	112
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	455	22	12	...	...	...	...	...	...	...	209	254	952
No Area	...	...	...	...	...	...	...	...	...	...	...	30	30
Group 5:													
Camrose	51	21	15	...	...	...	...	...	...	...	2	122	211
Castor	1109	575	402	230	85	69	6	24	310	838	1027	606	5281
Pakowki	13	...	...	...	...	...	...	...	7	...	16	8	44
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	18	...	...	2	...	...	...	...	12	23	56	29	140
Tofield	858	343	304	255	45	39	12	30	171	311	542	427	3337
Westlock	536	150	198	116	15	5	6	18	98	266	356	200	1964
Total:	13512	5392	4063	2294	908	1331	717	1767	6524	11334	14742	10769	73353

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Ardley	3095	1275	661	453	46	73	7	101	724	2060	2901	2106	13502
Big Valley	248	95	57	...	...	...	...	...	62	200	159	132	953
Brooks	279	159	84	26	61	...	...	24	456	486	639	642	2856
Carbon	3284	2184	1347	758	310	278	191	468	1266	3018	4432	3377	20913
Champion	528	310	251	231	100	124	58	223	301	418	569	484	3597
Drumheller	11670	8022	4825	6294	4652	4126	1091	3392	7531	8775	9825	8907	78540
Edmonton	14318	5608	3181	2279	696	1184	631	765	4091	10828	15684	9058	68623
Gleichen	120	69	53	41	10	16	1	3	...	39	101	264	717
Pembina	5515	2996	2032	1738	798	604	418	564	1886	3090	4898	5215	29651
Taber	1369	709	514	499	74	25	...	...	837	2039	2303	1503	9872
Weiskirwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitescourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	2472	1089	621	473	125	54	20	121	595	1658	2129	1727	11084
Castor	16962	5791	3638	2749	752	537	262	757	6043	11670	16282	11520	76963
Pakomki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	318	92	88	70	25	24	34	...	288	861	1319	619	3767
Sheerness	1572	758	353	277	100	217	304	79	1339	2470	3353	3160	13982
Tofield	6466	2293	1469	861	230	...	114	...	1711	4509	6420	3499	27572
Westlock	1459	634	369	333	17	5	...	...	73	446	1071	751	5158
Total:	59775	32084	19543	17082	7996	7567	3131	6546	26983	51967	72085	52964	367723

SLACK COWS

50.2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	208	77	223	260	155	70	...	177	...	...	...	...	...
Carbon	919	811	865	368	102	131	153	95	261	693	991	1277	1224
Champion	11	8	7	9	3	3	...	6	17	25	36	23	118
Drumheller	10990	7914	4309	4329	3178	3939	1436	3492	5054	7162	8018	10491	70312
Edmonton	12442	11514	10197	3750	1543	1238	1582	1702	2070	3153	10856	11695	71772
Gleichen	...	...	...	...	...	...	...	20	...	61	59	137	277
Pembina	1984	1854	1750	1560	1034	14	5	4	1	14	41	47	8288
Taber	249	345	81	100	6	...	...	...	160	1131	1504	299	3875
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Arsa	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	270	171	124	216	14	12	15	21	24	134	172	235	1408
Castor	777	344	1234	661	90	606	560	454	115	324	443	1088	6666
Pakonki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	267	444	99	...	14	...	...	...	...	23	24	11	852
Westlock	40	21	10	3	2	5	...	5	6	11	32	147	282
Total:	28137	23473	18899	11256	6441	6018	3751	5976	7709	12741	22209	25470	171780

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	80	...	...	140	87	207
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	255	398	395	260	86	127	88	311	397	390	1475	396	3608
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Oldman	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	748	796	119	145	39	...	59	146	294	185	267	91	2689
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	3904	1105	297	703	610	680	815	972	2101	3806	7111	3129	25863
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Fincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	174	28	...	...	...	149	148	187	88	252	235	64	1125
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	5081	2627	811	1008	735	856	1040	1626	3180	1433	8128	3767	33492

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	000	000	000	000	000	000	000	000	000	000	000	000	000
Highwood	000	000	000	000	000	000	000	000	000	000	000	000	000
Nordeg	000	000	000	000	000	000	000	000	000	000	000	000	000
Group 2:													
Gronstest	000	000	000	000	000	000	000	000	000	000	000	000	000
Mtn. Park	000	000	000	000	000	000	000	000	000	000	000	000	000
Oldman	000	000	000	000	000	000	000	000	000	000	000	000	000
Group 3:													
Coalspur	000	000	000	000	000	000	000	000	000	000	000	000	000
Halcourt	000	000	000	000	000	000	000	000	000	000	000	000	000
Lethbridge	000	000	000	000	000	000	000	000	000	000	000	000	000
Pekisko	000	000	000	000	000	000	000	000	000	000	000	000	000
Pincher	000	000	000	000	000	000	000	000	000	000	000	000	000
Pr. Creek	000	000	000	000	000	000	000	000	000	000	000	000	000
Saunders	253	75	70	00	00	00	76	200	192	256	129	220	1677
No Area	000	000	000	000	000	000	000	000	000	000	000	000	000
Total:	253	119	160	00	00	00	76	200	233	256	170	220	1901

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	967	240	139	...	...	...	...	56	570	1181	3155	1538	7846
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	36582	30745	10757	19123	11277	21091	5546	16925	32931	43693	42811	45131	319642
Edmonton	697	247	39	...	...	...	...	39	156	628	602	360	2788
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	564	537	262	174	89	188	...	192	104	360	594	528	3592
Taber	692	41	...	...	...	...	...	...	279	1612	2822	502	5948
Wataskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	14984	3733	3500	2318	583	348	113	855	6068	12022	12211	11243	128
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	67978
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Shaernasa	2683	899	693	1406	196	110	152	152	823	2630	2647	3172	14863
Tofield	1516	1004	935	749	71	...	...	...	481	878	702	653	6989
Wainlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	58685	37446	16325	22770	15216	21737	5811	18219	41540	63004	65574	63427	429754

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	***	***	***	***	***	***	***	***	***	***	***	***	***
Big Valley	***	***	***	***	***	***	***	***	***	***	***	***	***
Brooks	211	109	84	44	40			45	95	337	181	198	1344
Garbon	***	***	***	***	***	***	***	***	***	***	***	***	***
Champion	***	***	***	***	***	***	***	***	***	***	***	***	***
Drumheller	4860	3571	1241	2155	1502	1305	369	1284	3531	5020	4694	3965	33497
Edmonton	121	82	40	***	***	***	***	***	20	59		81	403
Gleichen	***	***	***	***	***	***	***	***	***	***	***	***	***
Pembina	507	156	149	74	31	67	41	149	292	278	279	253	2276
Taber	37	***	***	***	***	***	***	***	41	***	***	***	78
Wetaskiwin	***	***	***	***	***	***	***	***	***	***	***	***	***
Whitecourt	***	***	***	***	***	***	***	***	***	***	***	***	***
No Area	***	***	***	***	***	***	***	***	***	***	***	***	***
Group 5:													
Gamrose	57	52	***	***	***	43	***	***	96	43	88	***	379
Gastor	6167	3310	2403	1863	950	1047	401	1592	3970	3731	2956	3203	31593
Pakowki	***	***	***	***	***	***	***	***	***	***	***	***	***
Redcliff	***	***	***	***	***	***	***	***	***	***	***	***	***
Sheerness	3671	2425	2731	2444	318	204	290	692	2760	1445	1488	1905	20343
Tofield	1370	925	1361	780	171	***	92	***	4444	628	763	1020	7554
Westlock	***	***	***	***	***	***	***	***	***	***	***	***	***
Total:	17001	10630	8009	7330	3012	2666	1123	3762	11249	11541	10449	10625	97467

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	11114	1027	...	...	...	...	...	...	286	937	2313	1495	7172
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	9857	11751	5123	7149	7775	8145	3130	7894	8546	9573	10321	12114	102278
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1969	2000	2507	2952	3699	5595	5313	3095	2685	2034	3087	2204	371140
Taber	723	498	...	...	...	...	...	...	226	129	74	446	2066
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	520	487	68	...	...	...	...	...	...	...	...	...	1075
Castor	11247	10565	7900	9369	8213	6662	8702	7264	5993	6716	9494	8201	100326
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1723	1380	1593	1318	555	2754	1633	1472	909	642	1196	1639	16814
Torfield	...	...	...	...	...	...	...	...	...	...	...	66	66
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	27153	27708	17491	21088	20242	23456	18778	19725	18645	20031	26485	26135	266937

NDT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	232	***	***	***	***	***	***	30	***	55	18	***	335
Carbon	***	***	***	***	***	***	***	***	***	***	***	***	***
Drumheller	2491	1262	932	1162	1064	1447	1441	1058	1838	2304	2285	1982	18266
Edmonton	47	85	85	***	***	***	***	***	41	86	51	***	340
Pembling	598	446	270	441	99	284	20	165	606	625	312	527	14393
Taber	84	81	***	***	***	***	***	***	87	122	66	81	521
Group 5:													
Camrose	507	160	40	121	***	***	***	43	294	178	243	221	1807
Castor	636	303	189	265	123	160	12	233	550	704	444	551	1170
Sheerness	***	***	***	274	***	***	***	***	118	134	39	41	606
Tofield	***	***	***	***	***	***	***	***	42	***	***	***	42
Total:	4595	2252	1516	2263	1286	1891	473	1529	3576	4208	3458	3403	30450
					PREPARED STOCK								
Group 4:													
Brooks	160	39	***	***	1837	649	273	23	66	161	81	41	571
Drumheller	2335	2222	903	1619	1837	649	273	1032	2221	2955	2081	2596	20723
Edmonton	***	***	***	***	***	***	***	***	42	***	***	***	42
Pembling	7996	9522	10791	12722	11374	10087	4330	4224	5366	7734	8278	8313	100737
Taber	264	245	***	***	***	***	***	***	84	289	469	89	1460
Group 5:													
Camrose	449	197	193	172	44	***	***	***	230	216	419	169	1819
Castor	1905	885	931	795	440	318	156	341	948	1373	1033	1621	10716
Sheerness	126	80	***	40	***	42	***	168	453	334	198	303	1744
Tofield	86	43	***	***	***	***	46	***	89	51	***	22	337
Westlock	***	***	***	***	***	***	***	***	***	***	***	***	***
Total:	13321	13233	12818	15348	13665	11096	4805	5788	9429	13113	12309	13154	138149

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	***	***	***	***	***	***	***	***	***	***	***	***	***
Group 2:													
Crowsnest	***	233	157	149	77	***	***	45	***	***	***	***	661
Mtn. Park	2720	1110	686	***	***	***	***	***	***	***	***	***	15146
Group 3:													
Saunders	66	***	18	***	***	28	***	47	36	42	70	***	307
Total:	2786	1373	861	149	77	28	***	92	36	42	70	***	5514
Group 1:													
Cascade	***	***	***	***	***	***	***	44	***	***	***	***	44
Group 2:													
Crowsnest	***	***	***	***	39	68	***	***	***	***	***	80	187
Mtn. Park	***	***	***	***	***	***	***	***	***	***	***	***	***
Group 3:													
Goalspur	***	***	***	***	***	***	***	***	***	***	***	***	***
Pekisko	***	***	***	***	***	***	***	***	***	***	***	***	***
Saunders	***	***	***	***	***	***	***	***	***	***	***	***	***
Total:	***	***	***	***	39	68	***	44	***	***	***	80	231

NUT COAL

NO. 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	188	74	...	...	...	...	...	...	41	...	39	...	342
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	1898	844	393	204	294	635	37	471	951	923	860	1228	8738
Edmonton	171	...	...	...	...	...	...	...	66	84	112	74	507
Pembina	50	...	...	...	...	...	...	39	15	...	...	18	122
Taber	45	42	...	...	...	...	...	...	...	41	41	...	169
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	264	38	61	177	55	...	40	187	276	271	260	161	1790
Sheerness	82	...	42	76	...	...	...	...	...	38	...	...	238
Tofield	427	323	129	65	96	...	...	...	85	64	107	115	1411
Total:	3125	1321	625	522	445	635	77	697	1434	1421	1419	1596	13317
Group 4:													
Brooks	...	...	...	...	...	...	...	...	83	140	50	88	361
Carbon	...	15	...	...	...	...	...	...	...	...	...	...	15
Drumheller	602	342	80	144	122	152	39	283	826	665	485	336	4076
Edmonton	...	...	...	...	...	...	...	...	213	166	49	112	540
Pembina	483	129	80	41	42	...	...	...	431	194	83	64	1547
Taber	42	...	...	...	...	...	...	...	...	...	...	...	42
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	2316	758	405	371	216	164	...	653	2677	2514	1732	2167	13976
Sheerness	612	55	78	155	40	...	54	80	777	539	820	677	3833
Tofield	130	49	87	...	...	...	...	...	44	94	...	85	543
Total:	4185	1348	730	711	420	316	93	1016	5051	4312	3219	3529	24933

PREPARED STOKER

Total amount of Bituminous Coal disposed of by areas during each month for consumption in ONTARIO:
LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	168	359	1765	634	54	...	...	...	232	240	315	430	4197
Group 2:													
Crowsnest	89	104	45	...	...	...	...	...	...	87	...	144	469
Mtn. Park	...	...	...	...	...	1126	862	...	...	...	...	...	1988
Group 3:													
Coalspur	1447	3097	786	879	1598	653	283	1375	3491	3384	3582	3250	26525
Lethbridge	298	43	149	127	167	...	42	...	222	208	343	254	1853
Pelkinko	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	613	263	22	...	88	307	278	392	511	433	428	386	3721
Total:	5315	3866	2767	1640	1907	2086	1465	1767	4456	4352	4668	4464	38753
Group 1:													
Cascade	42	...	...	...	...	...	...	52	2222	1750	1359	995	6420
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	351	...	351
Group 3:													
Coalspur	171	159	81	55	...	82	...	82	241	161	298	123	1453
Lethbridge	53	83	83	...	40	...	84	57	94	242	177	40	953
Pelkinko	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	27	...	22	...	...	34	39	37	22	91	87	...	359
Total:	293	242	186	55	40	116	123	228	2579	2244	2272	1158	9536

THE MINES DIVISION

NUT COAL.

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	36	296	296	76	85	296	76	163	177	381	365	290	36
Drumheller	358	296	296	76	85	296	76	163	177	381	365	290	2567
Edmonton	44	296	296	296	296	296	296	296	127	12	296	296	171
Pembina	296	296	296	296	296	296	296	296	296	296	296	296	12
Taber	296	296	296	296	296	296	296	296	296	296	296	296	296
Group 5:													
Camrose	296	296	296	296	296	296	296	296	132	296	296	296	172
Sheerness	296	296	296	296	296	296	296	296	296	39	296	296	39
Tofield	296	32	296	296	296	296	296	296	296	296	296	296	32
Total:	138	328	296	76	85	296	76	203	736	162	365	290	3059
Group 4:													
Drumheller	11	39	296	296	80	296	114	296	296	296	110	296	354
Edmonton	296	296	296	296	296	296	296	296	296	296	296	296	296
Group 5:													
Sheerness	11	296	296	296	296	296	296	296	65	296	296	296	106
Tofield	296	296	296	296	296	296	296	296	296	296	296	296	296
Total:	82	39	296	296	80	296	110	296	179	296	110	296	160
Group 4:													
Drumheller	296	296	296	296	296	296	296	6	296	296	296	12	16
Group 5:													
Tofield	296	16	296	296	296	296	296	296	296	296	296	296	16
Total:	296	16	296	296	296	296	296	6	296	296	296	12	64

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in UNITED STATES:
LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4: Drumheller	51	...	45	...	...	...	...	...	...	...	...	...	96
Group 5: Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	51	...	45	...	...	...	...	...	...	...	...	...	96
PREPARED STOCK													
Group 4: Drumheller	...	...	...	37	...	...	...	...	...	...	...	...	37
Group 5: Camrose	...	42	...	...	...	...	...	...	...	...	...	...	42
Total:	...	42	...	37	...	...	...	...	...	...	...	...	79
NUT-SLACK													
Group 5: Camrose	...	...	...	...	...	...	...	...	43	...	...	...	43
Total:	...	...	...	...	...	...	...	...	43	...	...	...	43

THE MINES DIVISION

Amount of Bituminous Coal used making Briquettes:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	10310	5939	3905	3118	4305	4988	4688	4266	10972	8596	6737	7439	75263
Nordegg	25002	24585	18725	8600	6553	6225	3059	5059	3497	3814	4513	4612	111244
Group 2:													
Crowsnest	11649	16228	13183	24414	31193	32798	32021	38556	26382	14250	146308	38713	357025
Mtn. Park	11582	13934	9418	8950	4211	4712	4006	***	126	285	47	114	60385
Total:	64543	60686	45231	45082	46262	48723	43774	47881	40977	55245	57605	50908	606917
Group 2:													
Crowsnest	***	***	***	***	***	***	***	***	***	***	***	***	***
Total:	***	***	***	***	***	***	***	***	***	***	***	***	***
Group 4:													
Big Valley	***	***	***	***	***	***	***	***	***	***	***	***	***
Total:	***	***	***	***	***	***	***	***	***	***	***	***	***

Amount of Bituminous Coal used making Coke:

Amount of Sub-Bituminous Coal used making Fabriccoal:

Amount of Bituminous Coal lifted from Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	9104	6406	6318	11459	11737	11435	15804	15856	13352	13155	12906	12084	112816
Nordegg	389	490	***	1370	***	***	655	***	160	420	330	65	3879
Group 2:													
Crowsnest	45001	40060	40457	49506	58758	53967	67246	65099	65945	72667	72346	61538	692590
Group 3:													
Coalapur	9346	1656	516	144	300	1594	1363	75	1668	7177	2713	4085	30637
Lethbridge	1592	839	443	305	190	349	472	222	435	204	413	1172	6636
Pra. Creek	***	***	***	***	***	16	57	***	***	***	***	***	73
Saunders	80	128	40	62	344	361	25	148	255	800	1070	1151	14464
Total:	65512	49579	47774	62846	71329	70622	85622	81400	81815	94723	89778	80095	881095
Group 4:													
Big Valley	***	***	***	***	***	***	***	***	***	***	***	***	***
Brooks	549	1250	1514	57	7	***	***	25	***	194	44	317	3954
Drumheller	6928	1658	2812	296	212	885	1103	1207	1260	1298	1313	1269	20211
Edmonton	***	***	30	30	40	46	19	***	***	***	***	***	165
Pembina	***	***	***	74	***	***	***	***	6	***	***	***	80
Group 5:													
Redcliff	***	***	***	***	***	***	***	***	***	***	***	***	***
Sheerness	***	***	***	***	***	***	***	***	***	***	***	***	***
Westlock	165	***	65	***	***	***	***	***	***	***	***	***	230
Total:	7642	2908	4421	457	259	931	1122	1232	1266	1492	1354	1586	24670

OUTPUT AND NUMBER OF MINES PRODUCING

Kind of Coal	Under 1,000 Tons		1,000 to 5,000 Tons		5,000 to 10,000 Tons		10,000 to 50,000 Tons		50,000 to 100,000 Tons		100,000 to 150,000 Tons		150,000 to 200,000 Tons		200,000 to 300,000 Tons		Over 300,000 Tons		Total	
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output
Bituminous.....	12	3,359	..	.....	2	12,189	4	92,455	3	188,505	3	368,530	1	182,138	5	1,240,907	1	304,102	31	2,402,185
Sub-Bituminous...	38	12,032	27	72,828	9	65,919	16	346,635	6	467,336	5	639,370	2	331,490	2	521,341	..	.....	105	2,456,951
Total.....	50	15,391	27	72,828	11	78,108	20	439,090	9	655,841	8	1,007,900	3	523,628	7	1,762,248	1	304,102	136	4,859,136

THE MINES DIVISION

Number of men employed in the BITUMINOUS FIELD as at December 31st, 1964:

Areas	UNDERGROUND						ABOVE GROUND						STRIPPING			GRAND TOTALS				
	Skilled Employees	Foremen	Miners	Maintenance	Transportation	TOTAL UNDER- GROUND	Skilled Employees	Foremen	Maintenance	Transportation	Trip and Shipping	Powerhouse	All other Employees	TOTAL ABOVE GROUND	Skilled Employees	Wage Earners	TOTAL STRIPPING	TOTAL EMPLOYEES	TOTAL WAGE EARNERS	GRAND TOTAL
Group 1:																				
Cascade	19	1	84	48	39	191	16	1	22	15	20	26	27	127	...	...	...	35	283	318
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordeg	2	3	42	23	15	85	8	2	1	3	17	7	13	51	...	...	...	10	126	136
Group 2:																				
Crownest	56	8	304	89	121	578	67	4	1	9	160	119	25	385	20	180	200	143	1020	1163
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	71	78	7	71	78
Oldman	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:																				
Coalpur	24	4	149	43	53	273	23	4	4	6	55	44	6	142	18	35	53	65	403	468
Halecourt	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	2
Lethbridge	3	22	196	26	93	340	27	...	...	8	44	23	18	120	...	...	3	33	430	463
Pelisko	...	1	7	...	1	9	...	...	...	1	1	...	...	2	...	...	...	...	11	11
Pincher	...	1	1	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	3	3
Prairie Creek	3	5	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	5	8
Saunders	4	...	30	1	7	42	7	...	...	2	6	2	1	18	...	...	...	11	49	60
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	111	46	813	230	330	1530	148	11	28	44	303	221	90	845	49	286	335	308	2402	2710

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31st, 1954:

Group 4:	60	90	920	182	203	1155	63	11	2	29	111	11	26	313	102	370	1472	225	2015	2210
Ardley	...	1	2	...	...	...	...	...	...	...	...	...	...	...	6	114	50	6	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...
Brooks	4	1	22	...	...	...	...	...	...	...	...	...	...	...	13	32	145	13	...	...
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	9	16	12	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	2	80	117	13	136	1196	49	7	2	1	127	36	22	267	...	...	...	78	1396	1174
Edmonton	10	...	89	10	13	122	9	3	...	3	8	5	4	32	17	39	56	36	174	210
Gleichen	1	...	28	...	34	...	1	...	...	...	...	...	...	...	4	60	64	12	31	36
Pembina	5	...	...	...	7	...	3	...	...	...	...	...	...	...	7	15	22	7	62	74
Taber	...	1	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	23	31	8	23	31
Castor	5	4	10	4	1	24	...	1	...	...	...	...	...	...	11	78	89	16	98	114
Parkview	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parkview	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	2	...	7	...	...	16	...	...	...	2	...	...	...	...	...	...	...	...	...	...
Sheerness	...	2	...	...	2	...	...	...	...	...	...	...	...	...	13	35	148	13	16	18
Tofield	...	1	2	...	3	...	...	...	...	...	...	...	...	...	11	17	28	11	37	50
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	5	7	2	20	31
Total:	60	90	920	182	203	1155	63	11	2	29	111	11	26	313	102	370	1472	225	2015	2210

Men Employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	26	22	19	12	4	5	5	9	17	24	38	50	19
Big Valley	4	3	2	...	...	...	...	...	3	4	4	4	5
Brooks	49	44	15	13	13	10	10	17	33	37	43	45	27
Carbon	64	52	44	31	32	26	26	35	44	58	54	53	43
Champion	11	12	9	9	8	8	6	10	10	13	15	14	10
Drumheller	1125	1397	1171	1027	950	1023	1124	1192	1307	1397	1444	1474	1244
Edmonton	239	202	143	115	85	74	81	97	140	178	248	210	151
Gleichen	36	26	31	22	18	10	18	15	9	31	26	36	23
Pembina	66	58	47	69	79	74	54	51	51	64	64	74	62
Taber	47	42	17	14	4	7	...	12	25	28	35	24	21
Waskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitescourt	3	1	1	...	...	...	...	...	...	...	3	3	1
No Area	...	...	...	...	...	...	...	...	...	...	...	1	1
Group 5:													
Camrose	48	41	31	22	16	14	12	15	20	35	39	31	27
Castor	131	118	81	62	59	58	49	63	98	110	124	114	88
Pakowki	1	...	...	...	...	...	...	...	1	...	1	1	1
Redcliff	6	5	5	5	3	3	3	3	18	20	19	18	9
Sheerness	53	52	43	29	26	23	23	23	40	49	50	50	38
Tofield	37	31	26	23	21	3	13	3	21	29	36	31	22
Westlock	16	17	10	5	3	4	3	3	6	6	7	7	7
Total:	2262	2123	1695	1458	1321	1342	1427	1548	1843	2083	2253	2240	1799
Bituminous	3904	3789	3520	2763	2614	2569	2580	2576	2603	2676	2740	2710	2920
S.Bituminous	2262	2123	1695	1458	1321	1342	1427	1548	1843	2083	2253	2240	1799
Total:	6166	5912	5215	4221	3935	3911	4007	4124	4446	4759	4993	4950	4719

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE:

Year	Gross Tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of employed men underground	Tons of coal mined per man employed underground
1906.....	1,385,000	2,800	494	2,000	692
1907.....	1,834,745	3,600	509	2,700	679
1908.....	1,845,000	3,780	488	2,681	888
1909.....	2,174,329	5,207	417	3,893	566
1910.....	3,036,757	5,818	504	4,090	742
1911.....	1,694,564	6,689	253	4,517	375
1912.....	3,446,349	6,661	517	4,861	708
1913.....	4,306,846	8,068	533	5,837	737
1914.....	3,821,739	8,170	467	6,062	631
1915.....	3,434,891	6,445	532	4,493	764
1916.....	4,648,604	7,570	614	5,536	839
1917.....	4,863,414	8,310	595	6,047	804
1918.....	6,148,620	8,818	697	6,141	1,001
1919.....	5,022,412	7,573	663	5,160	958
1920.....	6,908,923	9,888	712	6,551	1,055
1921.....	5,937,195	10,018	592	7,203	824
1922.....	5,976,432	8,747	683	6,154	971
1923.....	6,866,923	9,927	687	7,249	893
1924.....	5,202,713	7,317	711	5,299	982
1925.....	5,883,394	8,774	670	6,498	834
1926.....	6,508,908	8,763	743	6,569	991
1927.....	6,936,780	9,016	768	6,681	970
1928.....	7,534,179	9,496	772	6,625	1,107
1929.....	7,147,250	9,572	747	7,115	1,004
1930.....	5,756,911	8,889	648	6,607	871
1931.....	4,563,309	8,070	577	5,969	701
1932.....	4,867,984	7,837	621	5,772	844
1933.....	4,714,784	8,042	586	5,937	794
1934.....	4,748,848	7,863	604	5,809	744
1935.....	5,462,973	7,800	700	5,644	969
1936.....	5,696,376	8,110	702	5,940	959
1937.....	5,551,682	7,838	708	5,806	966
1938.....	5,230,015	7,411	706	5,427	965
1939.....	5,518,105	7,466	740	5,517	1,000
1940.....	6,205,088	7,416	836	5,526	1,122
1941.....	6,970,064	7,714	903	6,916	1,007
1942.....	7,754,279	8,040	964	5,855	1,322
1943.....	7,677,982	8,636	889	6,197	1,160x
1944.....	7,427,433	8,375	887	6,867	1,155x
1945.....	7,801,248	8,309	939	5,752	1,298x
1946.....	8,824,455	8,583	1,028	6,987	1,187x
1947.....	8,074,596	8,772	920	6,090	1,017x
1948.....	8,111,013	8,865	915	5,702	946x
1949.....	8,616,983	8,682	993	5,534	1,025x
1950.....	8,118,206	7,999	1,015	4,990	1,006x
1951.....	7,661,276	7,359	1,044	4,457	1,084x
1952.....	7,194,472	6,936	1,037	4,211	1,070x
1953.....	5,917,423	5,760	1,027	3,386	998x
1954.....	4,859,136	4,719	1,030	2,733	999x

x See note over page.

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed underground
1910.....	878,011	2,307	380	1,876	524
1911.....	964,700	3,548	271	2,488	391
1912.....	1,341,389	2,980	450	2,283	587
1913.....	1,763,225	4,017	438	2,929	601
1914.....	1,697,401	4,219	402	3,190	532
1915.....	1,682,922	3,181	529	2,210	761
1916.....	2,172,801	4,132	525	3,137	692
1917.....	2,537,829	4,701	539	3,489	727
1918.....	3,035,061	4,896	619	3,420	887
1919.....	2,611,009	4,226	617	2,953	884
1920.....	3,359,309	5,173	647	3,723	902
1921.....	2,943,141	5,601	525	4,256	621
1922.....	3,086,669	4,981	620	3,752	823
1923.....	3,161,741	4,969	636	3,765	812
1924.....	3,096,660	4,543	681	3,447	898
1925.....	3,156,359	4,874	647	3,750	808
1926.....	3,160,029	4,798	658	3,714	816
1927.....	3,357,171	4,663	720	3,603	891
1928.....	3,378,200	4,810	702	3,700	873
1929.....	3,385,749	4,944	685	3,813	880
1930.....	2,874,090	4,822	596	3,756	765
1931.....	2,245,563	4,400	501	3,419	628
1932.....	2,574,785	4,548	566	3,539	728
1933.....	2,434,047	4,480	543	3,487	698
1934.....	2,295,566	4,289	535	3,370	644
1935 Stp. Pit.....	130,084	96	1,355	.....	.....
B. Ground.....	2,517,828	3,927	658	3,058	823
1936 Stp. Pit.....	80,111	107	749	.....	.....
B. Ground.....	2,761,120	4,112	671	3,243	851
1937 Stp. Pit.....	80,116	79	1,014	.....	.....
B. Ground.....	2,561,034	3,148	810	3,162	832
1938 Stp. Pit.....	72,829	74	945	.....	.....
B. Ground.....	2,380,434	3,573	667	2,846	801x
1939 Stp. Pit.....	76,394	73	1,048	.....	.....
B. Ground.....	2,372,805	3,636	653	2,900	818x
1940 Stp. Pit.....	74,021	71	1,042	.....	.....
B. Ground.....	2,463,184	3,556	692	2,844	866x
1941 Stp. Pit.....	88,142	63	1,399	.....	.....
B. Ground.....	2,625,112	3,427	766	2,745	956x
1942 Stp. Pit.....	119,615	67	1,785	.....	.....
B. Ground.....	3,093,498	3,485	888	2,777	1,114x
1943 Stp. Pit.....	137,307	78	1,760	.....	.....
B. Ground.....	3,278,730	4,016	816	3,133	1,048x
1944 Stp. Pit.....	366,862	283	1,395	.....	.....
B. Ground.....	2,779,939	3,565	882	2,826	984x

x See note over page

Note: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and "Sub-Bituminous."

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1922-Stp. Pit.....	367,514	217	1,693	...	...
B. Ground.....	267,559	403	664	277	966
1923-Stp. Pit.....	288,467	190	1,513	...	...
B. Ground.....	174,994	354	494	260	673
1924-Stp. Pit.....	369,724	211	1,752	...	...
B. Ground.....	222,222	393	565	278	799
1925-Stp. Pit.....	335,993	162	2,074	...	...
B. Ground.....	245,842	461	533	326	754
1926-Stp. Pit.....	258,964	147	1,761	...	...
B. Ground.....	251,407	443	545	305	758
1927-Stp. Pit.....	304,584	193	1,583	...	...
B. Ground.....	280,806	478	608	321	905
1928-Stp. Pit.....	394,682	179	2,205	...	...
B. Ground.....	345,810	645	536	457	756
1929-Stp. Pit.....	319,764	163	1,982	...	...
B. Ground.....	348,344	685	595	402	886
1930-Stp. Pit.....	304,144	157	1,937	...	...
B. Ground.....	299,187	569	526	390	767
1931-Stp. Pit.....	280,251	161	1,803	...	...
B. Ground.....	191,138	486	393	336	569
1932-Stp. Pit.....	348,266	177	1,968	...	...
B. Ground.....	211,213	491	430	341	619
1933-Stp. Pit.....	309,365	170	1,820	...	...
B. Ground.....	244,776	516	474	370	661
1934-Stp. Pit.....	302,064	158	1,912	...	...
B. Ground.....	235,488	482	489	326	722
1935-Stp. Pit.....	287,970	180	1,600	...	...
B. Ground.....	278,466	501	830	337	826
1936-Stp. Pit.....	263,899	175	1,508	...	...
B. Ground.....	302,587	532	569	360	841
1937-Stp. Pit.....	229,747	149	1,542	...	...
B. Ground.....	276,782	604	549	348	795
1938-Stp. Pit.....	227,317	148	1,536	...	...
B. Ground.....	261,595	633	772	327	800x
1939-Stp. Pit.....	248,459	142	1,735	...	...
B. Ground.....	265,646	494	538	320	830x
1940-Stp. Pit.....	318,425	241	1,321	...	...
B. Ground.....	280,261	393	713	328	854x
1941-Stp. Pit.....	320,801	272	1,179	...	...
B. Ground.....	264,652	284	689	248	1,069x
1942-Stp. Pit.....	332,748	191	1,742	...	...
B. Ground.....	400,799	521	769	342	1,172x
1943-Stp. Pit.....	351,890	360	967	...	...
B. Ground.....	440,062	442	996	399	1,102x
1944-Stp. Pit.....	280,420	161	1,742	...	...
B. Ground.....	449,007	589	973	386	1,163x
1945-Stp. Pit.....	833,129	330	2,525	...	...
B. Ground.....	2,367,358	2,915	812	2,379	991x
1946-Stp. Pit.....	851,605	316	2,631	...	...
B. Ground.....	2,603,354	3,068	849	2,513	1,036x
1947-Stp. Pit.....	709,704	339	2,094	...	...
B. Ground.....	2,527,516	3,183	794	2,859	884x
1948-Stp. Pit.....	1,007,042	385	2,616	...	...
B. Ground.....	2,183,175	3,010	725	2,444	893x
1949-Stp. Pit.....	1,027,493	432	2,378	...	...
B. Ground.....	2,094,163	2,819	743	2,297	912x
1950-Stp. Pit.....	1,233,234	466	2,646	...	...
B. Ground.....	2,081,952	2,605	835	2,042	1,024x
1951-Stp. Pit.....	1,120,858	447	2,507	...	...
B. Ground.....	1,881,129	2,204	854	1,796	1,047x
1952-Stp. Pit.....	1,283,056	454	2,716	...	...
B. Ground.....	1,582,794	1,906	830	1,643	1,026x
1953-Stp. Pit.....	1,247,075	365	3,417	...	...
B. Ground.....	1,152,849	1,454	793	1,158	996x
1954-Stp. Pit.....	1,278,186	356	3,590	...	...
B. Ground.....	1,178,765	1,443	817	1,164	1,013x

X See Note

BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910.....	1,896,961	2,981	636	2,076	914
1911.....	649,745	2,645	246	1,820	357
1912.....	1,926,371	3,243	594	2,353	818
1913.....	2,374,401	3,562	666	2,645	897
1914.....	1,953,367	3,529	553	2,632	742
1915.....	1,626,237	2,921	557	2,103	773
1916.....	2,335,259	3,142	743	2,258	1,034
1917.....	2,206,868	3,335	661	2,429	909
1918.....	2,982,354	3,636	820	2,597	1,109
1919.....	2,325,787	3,118	745	2,100	1,108
1920.....	3,419,021	4,228	809	2,711	1,292
1921.....	2,897,380	4,133	701	2,820	1,026
1922.....	2,214,273	3,034	730	2,084	1,062
1923.....	3,241,614	4,545	746	3,215	1,008
1924.....	1,515,107	2,171	698	1,574	966
1925.....	2,145,200	3,277	654	2,422	885
1926.....	2,858,508	3,375	847	2,550	1,121
1927.....	2,984,419	3,682	810	2,757	1,082
1928.....	3,215,481	3,862	832	2,468	1,302
1929.....	3,093,393	3,880	797	2,898	1,077
1930.....	2,278,490	3,341	682	2,461	926
1931.....	1,846,357	3,023	611	2,214	834
1932.....	1,733,720	2,621	660	1,892	916
1933.....	1,726,596	2,876	600	2,080	830
1934.....	1,915,740	2,934	653	2,113	907
1935.....	2,248,625	3,096	726	2,248	1,000
1936.....	2,288,658	3,184	719	2,337	979
1937.....	2,414,003	3,186	765	2,295	1,052
1938.....	2,287,840	3,131	731	2,254	1,015
1939.....	2,556,801	3,111	822	2,297	1,113
1940.....	3,069,197	3,155	972	2,354	1,303
1941.....	3,671,357	3,568	1,029	2,659	1,381
1942.....	3,807,619	3,766	1,008	2,746	1,387
1943.....	3,469,993	3,740	927	2,665	1,302
1944 Stp. Pit.....	119,092	35	3,403	.....	.....
B. Ground.....	3,432,113	3,762	935	2,655	1,293
1945 Stp. Pit.....	491,756	209	2,364	.....	.....
B. Ground.....	4,109,027	4,825	852	3,378	1,218
1946 Stp. Pit.....	991,355	332	2,986	.....	.....
B. Ground.....	4,398,261	4,869	903	3,384	1,300
1947 Stp. Pit.....	1,170,875	405	2,891	.....	.....
B. Ground.....	3,666,501	4,845	757	3,231	1,135
1948 Stp. Pit.....	1,709,039	552	3,096	.....	.....
B. Ground.....	3,211,757	4,818	653	3,258	986
1949 Stp. Pit.....	1,914,463	630	3,039	.....	.....
B. Ground.....	3,580,864	4,801	746	3,237	1,106
1950 Stp. Pit.....	1,865,120	588	3,172	.....	.....
B. Ground.....	2,927,900	4,440	659	2,946	993
1951 Stp. Pit.....	1,708,256	634	2,691	.....	.....
B. Ground.....	2,951,033	4,054	728	2,661	1,109
1952 Stp. Pit.....	1,455,453	532	2,786	.....	.....
B. Ground.....	2,928,169	4,044	723	2,668	1,095
1953 Stp. Pit.....	1,288,118	408	3,157	.....	.....
B. Ground.....	2,229,381	3,533	631	2,228	1,001
1954 Stp. Pit.....	851,381	376	2,264	.....	.....
B. Ground.....	1,550,804	2,544	610	1,569	988

ANTHRACITE COAL FIELD

1910.....	261,765	530	495	338	774
1911.....	80,119	500	160	209	383
1912.....	178,689	438	407	225	788
1913.....	168,720	489	345	263	641
1914.....	170,971	422	405	230	743
1915.....	125,732	343	366	180	698
1916.....	140,544	296	474	141	996
1917.....	118,717	284	418	129	920
1918.....	131,225	288	458	124	1,058
1919.....	85,616	229	374	95	901
1920.....	130,694	287	455	117	1,116
1921.....	96,674	284	341	127	761
1922.....	40,417	112	361	41	986
1923.....	107	89	1	9	12

NOTE: The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no Anthracite Coal produced since 1923.

- x Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from the mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under Permit.

NOTE: Previous to 1944 there was no coal mined in the Bituminous Field by Stripping Methods.

PER CAPITA PRODUCTION OF MINES BY AREAS:

BITUMINOUS COAL FIELD

Areas	Strip and Underground Mining						Strip Mining						Underground Mining					
	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per eight-hour shift	Tons of coal mined per hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per eight-hour shift	Tons of coal mined per hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per eight-hour shift	Tons of coal mined per hour man-shift
Group 1:																		
Gascade.....	233538	324	721	67735	3.44	3.44	....	....	....	....	....	....	233538	324	721	67735	3.44	3.44
Nordegge.....	120002	198	606	32753	3.66	3.66	....	....	....	....	....	....	109392	196	558	32302	3.38	3.38
Group 2:																		
Crowsnest.....	1086247	1371	792	251105	4.32	4.32	445543	207	2152	44272	10.06	10.06	640704	1164	550	206833	3.09	3.09
Mountain Park ..	265075	114	2325	30426	8.71	8.71	264409	103	2567	27527	9.60	9.60	666	11	61	2899	.22	.22
Group 3:																		
Coalspur.....	517815	508	1019	119031	4.35	4.35	129990	60	2167	15638	8.31	8.31	387825	448	866	103393	3.75	3.75
Halcourt.....	483	3	161	79	6.11	6.11	468	2	234	40	11.70	11.70	15	1	15	39	.38	.38
Lethbridge.....	154793	340	455	55782	2.77	2.77	361	2	181	54	6.68	6.68	154432	338	457	55728	2.77	2.77
Pekisko	6319	8	790	1656	3.81	3.81	....	....	....	....	....	....	6319	8	790	1656	3.81	3.81
Fincher	117	3	49	193	.76	.76	....	....	....	....	....	....	117	3	49	193	.76	.76
Prairie Creek...	422	3	141	194	2.17	2.17	....	....	....	....	....	....	422	3	141	194	2.17	2.17
Saunders.....	17344	48	361	8489	2.04	2.04	....	....	....	....	....	....	17344	48	361	8489	2.04	2.04
Total	2402185	2920	823	567443	4.23	4.23	851381	376	2264	87982	9.67	9.67	4550804	2544	610	479461	3.23	3.23

SUB-BITUMINOUS COAL FIELD

Group 1:	64898	19	3521	5106	13.10	66898	19	3521	5106	13.10	654	....	3	....	218	....	352	....	1.85
Ardley.....	1626	5	325	475	3.42	972	2	486	123	7.90	....	....	....	....	....	....	....	....	....
Big Valley.....	53260	27	1371	5735	9.28	53260	27	1971	5735	9.28	19008	....	30	....	634	....	6169	....	3.08
Brooks.....	45188	43	1051	8874	5.09	26180	13	2014	2705	9.67	6047	....	....	....	605	....	1230	....	4.91
Carbon.....	6047	10	605	1230	4.91	....	....	....	....	....	1048787	....	....	....	1237	....	247561	....	4.23
Champion.....	1058594	1244	851	247942	4.26	9807	48	1401	381	25.74	81830	....	103	....	848	....	21135	....	3.87
Drumheller.....	240446	151	1592	33024	7.28	158616	48	3305	11889	13.34	9450	....	23	....	398	....	6070	....	1.50
Edmonton.....	9150	23	398	6070	1.50	....	....	....	....	....	665	....	4	....	166	....	817	....	1.81
Gleichen.....	262364	62	423	15339	17.10	261699	58	4512	14522	18.02	733	....	5	....	147	....	472	....	1.55
Pembina.....	41182	21	1961	4267	9.65	40449	16	2528	3795	10.65	....	....	....	....	....	....	....	....	....
Taber.....	962	1	962	120	8.01	962	1	962	120	8.01	....	....	....	....	....	....	....	....	....
Whitecourt.....	30	1	30	3	10.00	30	1	30	3	10.00	....	....	....	....	....	....	....	....	....
No Area.....																			
Group 5:																			
Camrose.....	43191	27	1600	7149	6.04	43191	27	1600	7149	6.04	....	....	....	....	....	....	....	....	....
Castor.....	443438	88	5039	22283	19.90	438010	73	6000	19391	22.58	5428	....	15	....	362	....	2892	....	1.87
Pakowki.....	44	1	44	13	3.38	....	....	....	....	....	44	....	1	....	44	....	13	....	3.38
Redcliff.....	4022	9	447	1707	2.35	....	....	....	....	....	4022	....	9	....	447	....	1707	....	2.35
Sheerness.....	101193	38	2663	9643	10.49	101156	37	2734	9627	10.50	37	....	1	....	37	....	16	....	2.31
Tofield.....	69129	22	3142	5440	12.70	66769	20	3339	5215	12.80	2360	....	2	....	1180	....	225	....	10.48
Westlock.....	10187	7	1455	1695	6.01	10187	7	1455	1695	6.01	....	....	....	....	....	....	....	....	....
Total.....	2456951	1799	1366	376115	6.53	4278186	356	3590	87456	14.61	1178765	....	1443	....	817	....	288659	....	4.08

SUMMARY

Bituminous.....	2402185	2920	823	567443	4.23	851381	375	2270	87982	9.67	1550804	....	2545	....	609	....	479461	....	3.23
Sub-bituminous.....	2456951	1799	1366	376115	6.53	4278186	356	3590	87456	14.61	1178765	....	1443	....	817	....	288659	....	4.08
Total.....	4859136	4719	1030	943558	5.44	2129567	731	2913	175438	12.13	2729569	....	3988	....	684	....	768120	....	3.55

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	23.0	21.7	24.7	17.5	26.0	26.0	26.0	15.0	22.5	24.3	25.3	21.3	276.3
Big Valley	23.0	19.0	17.0	***	***	***	***	***	8.0	20.0	22.5	23.0	132.5
Brooks	18.0	19.5	27.0	26.0	14.0	15.0	6.0	10.0	17.5	22.5	23.0	17.5	206.0
Carbon	20.5	15.8	16.8	12.8	13.4	10.6	8.0	15.0	17.0	19.4	20.3	19.0	188.6
Champion	14.5	13.5	12.0	13.0	6.0	7.5	5.0	21.0	19.5	22.5	22.0	21.0	177.5
Drumheller	18.5	13.3	9.7	13.2	10.7	12.6	5.8	11.1	17.4	18.9	19.4	17.2	167.8
Edmonton	18.4	16.1	14.4	14.1	10.2	11.6	6.2	13.1	20.1	22.1	20.8	16.8	183.9
Gleichen	21.0	20.5	20.5	19.3	13.7	15.5	12.3	10.0	24.0	22.5	23.7	20.0	223.0
Pembina	20.3	13.2	12.4	11.3	8.7	13.0	10.4	7.3	7.8	16.6	19.8	18.0	161.8
Taber	13.0	8.3	10.5	5.0	20.0	16.0	***	22.0	19.0	16.0	14.5	7.0	151.3
Wetaskiwin	***	***	***	***	***	***	***	***	***	***	***	***	***
Whitecourt	22.0	3.0	2.0	***	***	***	***	***	***	***	10.5	11.0	48.5
No Area	***	***	***	***	***	***	***	***	***	***	***	3.0	3.0
Group 5:													
Camrose	18.0	21.5	18.2	13.3	10.0	7.5	7.0	15.0	20.0	14.3	24.3	23.0	192.1
Castor	17.4	15.6	12.4	12.4	8.8	8.4	8.4	9.8	14.6	19.6	16.7	15.7	159.8
Pakowki	4.0	***	***	***	***	***	***	***	2.0	***	3.0	3.0	12.0
Redcliff	12.0	15.0	9.0	16.0	9.0	3.0	24.0	15.0	12.0	26.0	26.0	25.0	192.0
Shaerness	17.0	7.5	7.0	5.0	4.0	11.0	4.0	10.0	22.0	18.0	15.0	12.6	133.1
Tofield	19.8	19.0	17.8	13.2	18.7	26.0	14.0	24.0	16.8	19.2	17.2	16.8	222.5
Westlock	22.7	20.0	16.0	19.5	18.0	4.0	5.0	16.0	11.5	18.0	25.0	24.0	199.7
Total:	323.1	262.5	247.4	214.6	181.2	187.7	142.1	214.3	271.7	319.9	349.0	317.9	3031.4
													170.5
Bituminous	140.5	136.8	122.8	122.4	82.7	91.7	78.1	89.1	115.9	148.0	177.0	166.0	1478.0
S. Bituminous	323.1	262.5	247.4	214.6	181.2	187.7	142.1	214.3	271.7	319.9	349.0	317.9	3031.4
Total:	463.6	399.3	370.2	344.0	263.9	279.4	220.2	303.4	387.6	467.9	526.0	483.9	4509.4
													155.5

Total number of shifts worked above and below ground by areas during each month, for the six months ending
June 30th, 1954

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1: Cascade Highwood Nordegg	2817 ...	3452 ...	2351 ...	3004 ...	2399 ...	3162 ...	2101 ...	2620 ...	2254 ...	2818 ...	2287 ...	2908 ...	14209 ...	17964 ...
Group 2: Grownest Mtn. Park Oldman	15654 3996 ...	12104 197 ...	17202 4114 ...	12551	13721 3694 ...	8632	13655 3166 ...	9000	11598 2870 ...	7781	12213 3104 ...	7920	84043 20944 ...	57988 197 ...
Group 3: Coalspur Halcourt Lethbridge Pekisko Pincher Fr. Greek Saunders No Area	6148 2169 70 318 ...	7901 4984 156 902 ...	5748 1359 61 213 ...	6871 2420 129 ... 36 411 ...	4870 1070 63 216 ...	5349 1772 107 12 20 420 ...	4488 1052 28 92 ...	5004 24 2389 66 ... 24 130 ...	4415 862 10 92 ...	4699 1777 35 117 ...	4434 1150 9 113 ...	3907 1831 51 238 ...	30103 7662 241 1044 ...	33731 24 15173 544 12 80 2218 ...
Total:	33499	33836	33113	29289	28024	22607	25411	20407	22944	18440	24266	17889	167227	142468

THE MINES DIVISION

Total number of shifts worked above and below ground by areas during each month for the six months ending
December 31st, 1954

BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for year 1954	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:																
Cascade.....	2501	2901	4051	1803	2867	3732	2617	3407	2459	3430	2414	3380	16909	18653	31118	36617
Highwood.....	631	550	793	953	701	695	702	695	710	890	820	1065	4387	4318	13368	19365
Norwegg.....																
Group 2:																
Crowsnest.....	10495	6178	10977	7814	9741	6599	10585	7856	11016	8502	10752	8559	63566	45508	117609	103496
Mtn. Park.....	1983	...	1673	...	1472	...	1300	...	1442	...	1415	...	9285	...	30229	197
Oldman.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:																
Coalspur.....	3701	2906	4290	5314	4611	5302	4611	5161	4515	5047	4690	5019	26448	28749	56551	62480
Haicourt.....	...	...	...	...	...	...	...	...	20	...	20	15	40	15	40	39
Lethbridge.....	953	1904	1244	2555	1612	3623	1999	5093	2411	6253	1565	4005	9544	23433	17176	38606
Pekisko.....	4	59	58	15	41	95	47	112	48	147	147	168	245	626	486	1170
Pineher.....	...	...	...	...	...	...	...	140	...	69	...	72	...	181	...	193
Pr. Creek.....	...	...	...	...	...	...	...	24	...	48	...	42	...	114	...	194
Saunders.....	209	283	224	516	300	852	308	840	248	597	255	595	1544	3683	2588	5901
No Area.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total.....	20477	11781	23310	19000	21345	20898	22199	23228	22629	24983	21978	22920	131938	125810	299165	268278

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30th, 1954

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:														
Ardley	573	58	479	28	460	34	215	...	101	...	108	...	1936	...
Big Valley	24	...	24	...	...	...	...	...	...	...	...	...	48	120
Brooks	728	...	444	...	287	...	295	...	256	...	...	...	2201	...
Carbon	473	723	338	451	245	429	137	311	243	240	166	260	1602	2414
Champion	11	86	...	94	6	60	11	65	6	54	7	55	52	...
Drunheller	5785	22054	4919	18344	3503	9058	3712	12514	3429	10760	3875	12973	25223	85703
Edmonton	2192	2461	1610	1422	1313	939	1013	777	887	583	827	590	7842	6792
Gleichen	20	520	17	223	17	351	6	185	6	151	21	166	89	1596
Pembina	1461	22	1005	21	901	9	1233	9	1629	...	1564	...	7793	61
Taber	565	128	349	84	170	120	129	54	90	...	142	...	1445	386
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	44	...	3	...	2	...	...	...	...	...	...	...	49	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:														
Camrose	988	...	737	...	518	...	459	...	387	...	322	...	3411	...
Castor	2694	372	1563	290	1166	143	1179	71	972	23	1175	22	8749	921
Fakowski	...	4	...	...	...	...	...	...	...	...	...	...	...	4
Redcliff	...	90	...	51	...	48	...	...	...	35	...	29	...	294
Sheerness	1161	...	811	...	769	...	614	...	611	...	519	...	4485	...
Tofield	728	44	552	44	476	35	441	30	476	...	72	...	2745	153
Westlock	354	...	275	...	448	...	93	...	75	...	79	...	1024	...
Total:	17801	26582	13139	21052	9981	11226	9537	14057	9168	11846	9068	14095	68694	98858

SUMMARY

Bituminous	33499	33836	33113	29289	28024	22607	25411	20407	22914	18440	24266	17889	167227	142468
S. Bituminous	17801	26582	13139	21052	9981	11226	9537	14057	9168	11846	9068	14095	68694	98858
Total:	51300	60418	46252	50341	38005	33833	34948	34464	32082	30286	33334	31984	235921	241326

THE MINES DIVISION

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1964

SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total 1964	
	Above Grd.		Below Grd.		Above Grd.		Below Grd.		Above Grd.		Below Grd.		Above Grd.		Above Grd.	
	Below Grd.		Above Grd.		Below Grd.		Above Grd.		Below Grd.		Above Grd.		Below Grd.		Below Grd.	
Group 4:	125	...	154	...	...	...	529	...	860	...	1181	...	3170	...	5106	...
Ardley	...	...	...	...	43	63	24	63	25	66	26	60	75	232	123	352
Big Valley	167	...	349	...	...	795	473	795	939	...	660	...	3534	...	5735	...
Brooks	227	218	295	...	472	553	473	553	459	625	447	539	2175	2683	5097	...
Carbon	...	...	13	...	84	26	137	137	24	...	24	156	104	660	156	1074
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	2474	5954	3973	11799	5183	23074	6047	23074	5806	23450	6100	24164	29583	107433	54806	193136
Edmonton	829	362	1101	1710	1149	1751	2180	1751	2427	2649	1945	1839	9910	8480	17752	15272
Gleichen	16	238	18	220	116	853	28	853	38	488	42	2273	167	4218	256	5814
Pembina	1067	8	706	1	908	3	1300	3	1401	309	1430	350	6812	673	14605	734
Taber	...	...	273	...	453	20	636	20	695	8	347	4	2404	32	3849	418
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Camrose	390	...	350	...	507	973	2172	747	806	...	712	...	3738	...	7149	...
Castor	1134	...	1311	10	1906	321	2172	747	2179	391	2158	284	10660	1753	19609	2674
Parkowki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	23	50	20	36	...	344	52	344	52	3	...	3	...	9	13	13
Sheerness	431	...	548	...	182	1121	1121	344	1161	363	33	234	5112	1209	204	1503
Tofield	309	...	72	...	...	498	4	4	631	4	1008	8	2470	72	9627	16
Westlock	78	...	67	...	82	110	...	24	162	24	514	24	671	...	5215	225
Total:	7270	6898	9250	13123	13071	21394	16964	27573	17700	28544	16838	29938	81093	127470	1449787	226338

SUMMARY

Bituminous	20477	14781	23310	19000	21345	20898	22199	23228	22629	24983	21978	22920	131938	125810	299165	268278
S. Bituminous	7270	6898	9250	13123	13071	21394	16964	27573	17700	28544	16838	29938	81093	127470	1449787	226338
Total:	27747	21679	32560	32123	34446	42292	39163	50801	40329	53527	38816	52858	213031	253280	448952	494606

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of Tons of Coal mined per Eight-hour Shift
1927	6,936,780	2,196,712	3.157
1928	7,334,179	2,282,098	3.213
1929	7,147,250	2,261,064	3.161
1930	5,755,911	1,823,826	3.155
1931	4,563,309	1,396,696	3.267
1932	4,867,984	1,476,813	3.299
1933	4,714,784	1,440,985	3.271
1934	4,748,848	1,342,086	3.538
1935	5,462,973	1,614,032	3.384
1936	5,696,375	1,696,998	3.356
1937	5,551,682	1,620,003	3.426
1938	6,230,016	1,498,855	3.489
1939	5,518,105	1,549,042	3.562
1940	6,205,088	1,673,948	3.706
1941	6,970,064	1,877,968	3.711
1942	7,754,279	2,229,655	3.477
1943	7,677,982	2,200,426	3.469
1944	7,427,433	2,034,155	3.661
1945	7,801,248	1,990,452	3.919
1946	8,824,455	2,105,511	4.191
1947	8,074,596	1,998,002	4.041
1948	8,111,013	1,894,837	4.280
1949	8,616,983	1,910,922	4.510
1950	8,118,206	1,755,316	4.678
1951	7,661,276	1,683,061	4.552
1952	7,194,472	1,522,264	4.726
1953	5,917,423	1,141,531	5.184
1954	4,859,136	943,558	5.150

THE MINES DIVISION

AMOUNT OF MINE TIMBER USED DURING THE YEAR

BITUMINOUS COAL FIELD

Area	Timber lineal feet	Lumber B.M. feet	Lagging lineal feet	Ties lineal feet	Sprags lineal feet
Group 1:					
Cascade.....	626,961	...	10,510	21,452	...
Nordeg.....	480,008	...	...	...	...
Group 2:					
Crowsnest.....	1,336,568	1,023,112	789,201	33,106	4,650
Mountain Park.....	4,368	5,000	6,750	155	23
Group 3:					
Coalspur.....	774,962	528,418	132,975	2,560	1,000
Halcourt.....	3,000	...	1,000	...	...
Lethbridge.....	525,353	29,764	13,150	20,021	210
Pekisko.....	9,400	2,100	2,000	...	...
Pincher.....	800	...	1,500	...	...
Prairie Creek.....	4,000	16,000	2,000	500	...
Saunders.....	66,091	...	2,600	4,600	...
Total.....	3,831,511	1,604,394	961,686	82,394	5,883

SUB-BITUMINOUS COAL FIELD

Group 4:					
Big Valley.....	2,000	...	...	350	100
Carbon.....	125,637	2,750	18,502	5,108	...
Champion.....	35,160	2,500	17,450	1,850	1,250
Drumheller.....	4,387,741	56,469	31,188	206,485	...
Edmonton.....	210,091	4,920	27,050	11,388	...
Gleichen.....	21,346	3,403	3,100	1,350	...
Pembina.....	4,440	2,000	1,700	1,500	...
Taber.....	240	...	...	100	...
Group 5:					
Castor.....	19,108	2,700	3,900	6,275	400
Pakowki.....	700	...	500	90	...
Redcliff.....	6,266	...	7,962	...	...
Sheerness.....	100	475	...	50	...
Tofield.....	4,800	...	...	2,435	...
Total.....	4,817,629	75,217	111,352	236,981	1,750

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-
BITUMINOUS COAL FIELDS DURING THE YEARS 1953 and 1954

BITUMINOUS

	<u>1953</u>	<u>1954</u>
Portable Electric Lamps, Edison Cap Type..	3,579	2,882
Wolfe Flame Type.....	258	207
	<hr/>	<hr/>
Total.....	3,837	3,089
	<hr/>	<hr/>

SUB-BITUMINOUS

	<u>1953</u>	<u>1954</u>
Portable Electric Lamps, Edison Cap Type..	1,358	1,365
Wolfe Flame Type.....	165	137
	<hr/>	<hr/>
Total.....	1,523	1,502
	<hr/>	<hr/>

THE MINES DIVISION

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:

BITUMINOUS COAL FIELD

Area	Name of Explosive					Total
	Pellet	Monobel	CXL-ite	Cardox	Forcite	
Group 1:						
Cascade.....	...	38,050	...	...	...	38,050
Nordegge.....	...	13	...	...	...	13
Group 2:						
Crowsnest.....	17,650	31,482	...	41	...	49,173
Group 3:						
Coalspur.....	...	101,619	20,600	...	5,900	128,119
Halcourt.....	...	80	...	...	...	80
Lethbridge.....	950	16,154	...	4,319	...	21,423
Pekisko.....	5,000	250	...	...	...	5,250
Pincher.....	...	100	...	...	...	100
Prairie Creek.....	...	100	...	...	...	100
Saunders.....	...	3,563	...	...	...	3,563
Total.....	23,600	191,411	20,600	4,360	5,900	245,871

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley.....	9,270	4,555	...	...	...	13,825
Big Valley.....	900	...	...	...	...	900
Brooks.....	6,225	...	...	...	...	6,225
Carbon.....	5,875	450	...	...	...	6,325
Champion.....	2,350	...	...	...	...	2,350
Drumheller.....	47,205	49,943	443	185,890	...	283,481
Edmonton.....	...	10,498	...	...	...	10,498
Gleichen.....	1,200	600	...	...	...	1,800
Pembina.....	100	5,550	...	...	...	5,650
Taber.....	90	170	...	...	...	260
Whitecourt.....	50	150	...	...	...	200
Group 5:						
Camrose.....	100	955	...	...	...	1,055
Castor.....	1,445	15,070	...	...	...	16,515
Pakowki.....	...	25	...	...	...	25
Redcliff.....	561	283	...	...	...	844
Sheerness.....	105	4	...	...	...	109
Tofield.....	1,496	1,750	...	...	...	3,246
Westlock.....	...	176	...	...	...	176
Total.....	76,972	90,179	443	185,890	...	353,484

Number of tons of Coal produced per pound of
Explosives used for blasting Coal:

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of Pounds of Explosives used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade.....	233,538	38,050	6.13
Nordeg.....	120,002	13	9230.92
Group 2:			
Crowsnest.....	1,086,247	49,173	22.09
Mountain Park.....	265,075	...	...
Group 3:			
Coalspur.....	517,815	128,119	4.04
Halcourt.....	483	80	6.03
Lethbridge.....	154,793	21,423	7.22
Pekisko.....	6,319	5,250	1.20
Pincher.....	147	100	1.47
Prairie Creek.....	422	100	4.22
Saunders.....	17,344	3,563	4.86
Total.....	2,402,185	245,871	9.77

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley.....	66,898	13,825	4.83
Big Valley.....	1,626	900	1.80
Brooks.....	53,260	6,225	8.55
Carbon.....	45,188	6,325	7.14
Champion.....	6,047	2,350	2.57
Drumheller.....	1,058,594	283,481	3.73
Edmonton.....	240,446	10,498	22.90
Gleichen.....	9,150	1,800	5.08
Pembina.....	262,364	5,650	46.43
Taber.....	41,182	260	158.39
Whitcourt.....	962	200	4.81
No Area.....	30	...	...
Group 5:			
Camrose.....	43,191	1,055	40.93
Castor.....	443,438	16,515	26.85
Pakowki.....	44	25	1.76
Redcliff.....	4,022	844	4.76
Sheerness.....	101,193	109	928.37
Tofield.....	69,129	3,246	21.29
Westlock.....	10,187	176	57.88
Total.....	2,456,951	353,484	6.95

Estimated number of shots fired for Blasting Coal:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade.....	70,031	...	...	70,031
Nordegg.....	45	...	...	45
Group 2:				
Crowsnest.....	21,082	...	41	21,123
Group 3:				
Coalspur.....	98,371	...	...	98,371
Halcourt.....	400	...	...	400
Lethbridge.....	29,810	278	...	30,088
Pekisko.....	3,500	...	...	3,500
Pincher.....	300	...	...	300
Prairie Creek.....	125	...	...	125
Saunders.....	5,530	...	...	5,530
Total.....	229,194	278	41	229,513

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley.....	7,639	2,186	...	9,825
Big Valley.....	1,150	...	...	1,150
Brooks.....	6,315	...	...	6,315
Carbon.....	8,586	26	...	8,612
Champion.....	1,300	...	...	1,300
Drumheller.....	169,438	3,966	60,982	234,386
Edmonton.....	16,030	...	...	16,030
Gleichen.....	1,660	...	...	1,660
Pembina.....	5,600	300	...	5,900
Taber.....	380	115	...	495
Whitecourt.....	430	...	...	430
Group 5:				
Camrose.....	791	213	...	1,004
Castor.....	21,707	175	...	21,882
Pakowki.....	60	...	...	60
Redcliff.....	741	...	...	741
Sheerness.....	419	...	...	419
Tofield.....	5,060	...	...	5,060
Westlock.....	384	...	...	384
Total.....	247,690	6,981	60,982	315,653

Number of miss-fire shots recorded in Blasting Coal in the Province:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade.....	3	...	...	3
Group 3:				
Lethbridge.....	6	...	...	6
Prairie Creek.....	3	...	...	3
Total.....	12	...	...	12

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley.....	2	...	...	2
Brooks.....	4	...	...	4
Carbon.....	11	...	...	11
Champion.....	2	...	...	2
Drumheller.....	21	6	70	97
Edmonton.....	1	...	...	1
Pembina.....	3	...	...	3
Taber.....	...	1	...	1
Group 5:				
Castor.....	...	3	...	3
Tofield.....	1	...	...	1
Total.....	45	10	70	125

THE MINES DIVISION

Quantity of Explosives used in pounds for Elasting Rock in Coal-mines in the Province.

BITUMINOUS COAL FIELD

Area	Monobel	CXL-ite	Forcite	Total
Group 1:				
Cascade.....	...	3,300	...	3,300
Nordegg.....	...	51	...	51
Group 2:				
Crowsnest.....	...	999	198,330	199,329
Mountain Park.....	...	...	97,750	97,750
Group 3:				
Coalspur.....	...	7,550	1,900	9,450
Halcourt.....	...	...	50	50
Lethbridge.....	4	...	...	4
Prairie Creek.....	20	...	...	20
Saunders.....	...	276	...	276
Total.....	24	12,176	298,030	310,230

SUB-BITUMINOUS COAL FIELD

Group 4:				
Brooks.....	...	169	...	169
Carbon.....	300	100	...	400
Champion.....	100	200	150	450
Drumheller.....	215	10,183	860	11,258
Gleichen.....	110	...	...	110
Pembina.....	...	...	62	62
Taber.....	...	90	50	140
Group 5:				
Castor.....	...	...	50	50
Total.....	725	10,742	1,172	12,639

Estimated number of shots fired for Blasting Rock in Coal-mines in the Province.

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total
Group 1:			
Cascade.....	3,000	...	3,000
Nordegg.....	124	...	124
Group 2:			
Crowsnest.....	28,492	...	28,492
Mountain Park.....	3,217	...	3,217
Group 3:			
Coalspur.....	1,608	...	1,608
Halcourt.....	50	...	50
Lethbridge.....	8	...	8
Prairie Creek.....	30	...	30
Saunders.....	170	...	170
Total.....	36,699	...	36,699

SUB-BITUMINOUS COAL FIELD

Group 4:			
Books.....	2	...	2
Carbon.....	530	...	530
Champion.....	500	...	500
Drumheller.....	22,899	...	22,899
Gleichen.....	80	...	80
Pembina.....	40	...	40
Taber.....	150	...	150
Group 5:			
Castor.....	45	...	45
Total.....	24,246	...	24,246

Estimated number of miss-fire shots recorded in Blasting Rock in Coal-mines in the Province.

Group 2:			
Crowsnest.....	6	...	6
Group 4:			
Drumheller.....	6	...	6
Total.....	12	...	12

ELECTRICITY

Area	No. of Mines using Elec- tricity	Horsepower of elec- trical equipment in use		Total Horse- Power	Purchased Power
		Above Ground	Below Ground		
Brooks.....	2	278	.....	278	39,000
Camrose.....	1	103	.....	103	68,900
Carbon.....	5	111	185	296	141,299
Cascade.....	1	5,028	.....	5,028	11,521,200
Castor.....	9	1,350	75	1,425	1,954,200
Coalspur.....	4	2,721	1,551	4,272	.....
Crowsnest.....	6	19,314	4,328	23,642	22,043,132
Drumheller.....	15	3,840	6,865	10,705	6,625,131
Edmonton.....	10	655	992	1,647	511,490
Gleichen.....	2	10	43	53	29,500
Lethbridge.....	3	2,136	1,886	4,022	1,982,680
Mountain Park.....	1	1,511	30	1,541	.....
Nordegg.....	1	3,552	145	3,697	4,613,300
Pekisko.....	1	69	6	75	470
Pembina.....	1	113	.....	113	90,580
Prairie Creek.....	1	25	39	64	.....
Redcliff.....	1	93	61	154	35,000
Saunders.....	1	112	108	220	216,200
Sheerness.....	2	1,358	.....	1,358	580,475
Taber.....	3	130	3	133	12,600
Tofield.....	4	432	8	440	223,800
Total.....	74	42,941	16,325	59,266	50,688,957

COAL-CUTTING MACHINERY

Area	No. of Machines Operated by:			Tons of Coal Mined by:	
	Elec- tricity	Compressed Air		Elec- tricity	Compressed Air
		Picks	Mach.		
Big Valley.....	.....	.....	2	.....	654
Carbon.....	6	.....	1	9,022	581
Cascade.....	.....	61	.....	.....	175,154
Castor.....	7	.....	2	2,387	1,491
Champion.....	.....	.....	1	.....	2,476
Coalspur.....	1	.....	41	1,500	346,151
Crowsnest.....	5	298	.....	525	439,187
Drumheller.....	75	.....	.....	1,048,787	.....
Edmonton.....	17	.....	.....	70,661	.....
Gleichen.....	2	.....	.....	6,793	.....
Lethbridge.....	23	.....	.....	152,849	.....
Nordegg.....	.....	100	.....	.....	120,002
Pembina.....	.....	.....	2	.....	407
Prairie Creek.....	1	.....	.....	422	.....
Redcliff.....	1	.....	.....	4,022	.....
Saunders.....	.....	.....	4	.....	17,344
Taber.....	1	.....	.....	42	.....
Tofield.....	2	.....	.....	1,302	.....
Total.....	141	459	53	1,298,312	1,103,447

ACCIDENTS

Summary Table showing Accidents occurring in the Mines from 1906 to 1954 inclusive, reportable under the Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	158,800	126,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,562	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61a	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,659
1912	3,446,349	21	39	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209b	44	50	18,286	86,857	76,434
1915	3,434,391	18	33	33	190,827	104,087	104,087
1916	4,648,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,957,195	21	64	25	282,721	92,789	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39c	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,566	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35d	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
1937	5,561,682	20	72	73	277,584	77,107	76,050
1938	5,280,015	21e	72	135	249,040	72,639	38,741
1939	5,518,105	17	67	180	324,594	96,809	30,657
1940	6,205,088	13	79	97	477,314	78,545	63,970
1941	6,970,064	48f	78	142	145,209	89,360	49,084
1942	7,754,279	17	92	148	456,134	84,285	52,393
1943	7,677,982	25g	73	152	307,119	105,178	50,513
1944	7,427,433	10	70	125	742,743	106,106	59,419
1945	7,801,248	23h	51	168	339,185	154,923	46,456
1946	8,824,455	12	76	128	735,371	116,111	68,941
1947	8,074,596	15	121	117	538,306	66,732	69,014
1948	8,111,013	13	91	93	623,924	89,132	87,215
1949	8,616,983	13	89	108	662,076	96,708	79,694
1950	8,118,206	201	86	97	405,910	94,398	83,693
1951	7,661,276	9	85	53	851,253	90,133	144,552
1952	7,194,472	7	79	79	1,027,782	91,069	91,069
1953	5,917,423	10j	59	60	591,742	100,296	98,623
1954	4,859,136	8	51	41	607,392	95,277	118,516
Total	275,690,107	1168	3028	3963	236,036	91,047	69,566

- a. Including thirty-one deaths caused by the Bellevue Explosion.
- b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.
- c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co. Ltd. Explosion, and two deaths caused by explosion at the Hillcrest Collieries Ltd. at Hillcrest.
- d. Including sixteen deaths caused by the explosion at Lethbridge Colls. Ltd. at Coalhurst.
- e. Including five deaths caused by the explosion at Hinton Collieries Ltd.
- f. Including four deaths caused by an Explosion at North American Colls. Ltd. Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Colls. Ltd. Nordegg.
- g. Including four deaths caused by an explosion at the Kerralta Coal Co. Ltd., Lethbridge.
- h. Including seven deaths caused by an explosion at Luscar Coals Ltd., Luscar.
- i. Including five deaths caused by inundation of water at the Cadomin Coal Co. Ltd. Cadomin, and two deaths caused by "bump" at the McGillivray Creek Coal and Coke Co. Ltd., Coleman.
- j. Including five deaths caused by "bump" at Coleman Collieries Ltd. (McGillivray Mine), Coleman.

ACCIDENTS DURING 1954, CLASSIFIED ACCORDING TO THE COAL FIELDS IN WHICH THEY
OCCURRED:

Field	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Bituminous.....	2,402,185	4	36	25	600,546	66,727	96,087
Sub-bituminous.....	2,456,951	4	15	16	614,238	163,797	153,559
Total.....	4,859,136	8	51	41	607,392	95,277	118,516

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1952, 1953
AND 1954

	1952	1953	1954
Hard Hats.....	5,095	3,737	3,132
Safety Shoes, pairs.....	3,351	2,785	2,605
Goggles, pairs.....	385	396	422
Knee Pads, pairs.....	148	153	256

THE MINES DIVISION

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1954.

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men	No.	Per 1,000,000 tons	Per 1,000 men	No.	Per 1,000,000 tons	Per 1,000 men	Per 1,000,000 tons	Per 1,000 men	No.
1915.....	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	24.45	13.03	84
1916.....	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	22.61	13.87	105
1917.....	4,833,414	8,310	24	4.93	2.68	62	12.75	7.45	39	8.02	4.69	25.91	15.04	125
1918.....	6,149,620	8,818	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	25.85	18.12	159
1919.....	5,022,412	7,573	22	4.18	2.78	56	11.15	7.33	54	10.75	7.13	26.28	17.30	131
1920.....	6,808,928	9,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	17.37	13.81	120
1921.....	5,927,195	10,018	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	18.53	10.99	108
1922.....	5,976,432	8,747	35	5.86	4.09	38	6.36	4.45	35	6.86	4.09	18.07	12.64	107
1923.....	6,856,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.46	1.00	11.07	7.65	76
1924.....	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	19.79	14.35	103
1925.....	5,886,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	24.65	16.53	145
1926.....	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	34.57	25.68	225
1927.....	6,936,780	9,016	26	2.88	2.88	76	10.98	8.43	115	16.50	12.71	31.28	24.06	217
1928.....	7,334,179	9,496	28	2.96	2.96	71	9.68	7.48	122	13.63	12.85	30.12	23.27	221
1929.....	7,147,250	9,572	31	3.24	3.24	69	9.65	7.21	98	12.71	10.24	27.70	20.30	198
1930.....	5,755,911	8,889	11	1.91	1.24	69	11.99	7.75	97	17.20	10.90	30.75	19.91	177
1931.....	5,585,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	35.92	20.32	164
1932.....	4,714,784x	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.23	34.51	21.43	168
1933.....	5,042,975x	8,042	6	1.27	.75	60	12.73	7.46	109	20.99	13.55	37.12	21.76	175
1934.....	4,748,648x	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	32.21	19.45	153
1935.....	5,462,973x	7,800	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	39.17	27.35	214
1936.....	5,686,375x	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	33.63	23.55	191
1937.....	5,551,682x	7,856	20	3.60	2.56	72	12.97	9.19	73	13.15	9.32	29.72	21.08	165
1938.....	5,230,015x	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	43.59	30.76	228
1939.....	5,318,105x	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	46.03	34.06	254
1940.....	6,205,088x	7,416	13	2.10	1.76	79	12.73	10.65	97	15.63	13.08	30.46	25.48	189
1941.....	6,970,064x	7,714	48f	6.80	6.22	78	11.19	10.11	142	20.37	18.41	38.73	34.74	268
1942.....	7,754,275x	8,040	17	2.19	2.11	92	11.66	11.44	148	19.09	18.40	33.14	31.95	257
1943.....	7,677,982x	8,636	25g	3.26	2.87	73	9.51	8.43	152	19.80	17.60	32.56	28.95	250
1944.....	7,437,433x	8,375	10	1.34	1.19	70	9.42	8.38	125	16.83	14.92	27.60	24.47	205
1945.....	7,801,245x	8,309	23h	2.93	2.76	51	6.53	6.13	169	21.53	20.24	31.02	29.12	243

1946.....	8,824,455x	8,583	12	1.36	1.39	76	8.61	8.85	128	14.50	14.91	216	24.47	26.16
1947.....	8,074,598x	8,772	15	1.66	1.71	121	14.98	13.79	117	14.49	13.33	253	31.33	28.84
1948.....	8,111,013x	8,665	13	1.60	1.47	91	11.22	10.27	93	11.47	10.49	197	24.29	22.22
1949.....	8,616,983x	8,682	13	1.81	1.80	89	10.53	10.25	108	12.53	12.44	210	24.37	24.19
1950.....	8,118,205x	7,999	201	2.46	2.50	86	10.59	10.86	97	11.96	12.13	203	26.01	25.39
1951.....	7,661,276x	7,839	9	1.17	1.23	85	11.09	11.58	53	6.92	7.22	147	19.19	20.03
1952.....	7,194,472x	6,936	7	.97	1.01	79	10.89	11.39	79	10.98	11.39	165	22.85	23.79
1953.....	5,917,423x	5,760	10J	1.69	1.74	59	9.97	10.24	90	10.14	10.42	129	21.80	22.40
1954.....	4,959,138x	4,719	8	1.65	1.70	51	10.49	10.81	41	8.43	8.69	100	20.50	21.19

g. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co. Ltd., Coleman.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton

f. Including 4 deaths by explosion at North American Collieries Ltd., East Coulee, and 29 deaths by explosion at

Brazee Collieries Ltd., Nordegg.

g. Including 4 deaths caused by explosion at the Kerralta Coal Co. Ltd., Lethbridge.

h. Including 7 deaths caused by explosion at the Luscar Coals Ltd., Luscar.

i. Including 5 deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and 2 deaths caused

by "bump" at the McGillivray Creek Coal & Coke Co. Ltd., Coleman.

j. Including 5 deaths caused by "bump" at the Coleman Collieries Ltd., (McGillivray Mine) Coleman.

x Output does not include coal produced by farmers under permit.

THE MINES DIVISION

Number of Tons Produced Per Accident:

BITUMINOUS COAL FIELD

Area	Output	Average No. of men Employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade.....	233,538	324	.....	38,923	77,846	25,949
Nordegg.....	120,002	198	.....	24,000	40,000	15,000
Group 2:						
Crownest.....	1,086,247	1,371	543,124	77,589	77,589	36,208
Mountain Park.....	265,075	114	.....	.....	.....	.....
Group 3:						
Coalspur.....	517,815	508	258,908	73,974	129,454	39,832
Halcourt.....	483	3	.....	.....	.....	.....
Lethbridge.....	154,793	340	.....	51,598	154,793	38,698
Pekisko.....	6,319	8	.....	.....	.....	.....
Pincher.....	147	3	.....	.....	.....	.....
Prairie Creek.....	422	3	.....	.....	.....	.....
Saunders.....	17,344	48	.....	17,344	.....	17,344
Total.....	2,402,185	2,920	600,546	66,727	96,087	36,957

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley.....	66,898	19	.....	.....	.....	.....
Big Valley.....	1,626	5	.....	.....	.....	.....
Brooks.....	53,260	27	.....	.....	.....	.....
Carbon.....	45,188	43	.....	.....	.....	.....
Champion.....	6,047	10	.....	.....	.....	.....
Drumheller.....	1,058,594	1,244	529,297	88,216	66,162	35,286
Edmonton.....	240,446	151	240,446	240,446	.....	120,223
Gleichen.....	9,150	23	.....	.....	.....	.....
Pembina.....	262,364	62	.....	.....	.....	.....
Taber.....	41,182	21	.....	.....	.....	.....
Whitecourt.....	962	1	.....	.....	.....	.....
No Area.....	30	1	.....	.....	.....	.....
Group 5:						
Camrose.....	43,191	27	.....	.....	.....	.....
Castor.....	443,438	88	.....	443,438	.....	443,438
Pakowki.....	44	1	.....	.....	.....	.....
Redcliff.....	4,022	9	4,022	4,022	.....	2,011
Sheerness.....	101,193	38	.....	.....	.....	.....
Tofield.....	69,129	22	.....	.....	.....	.....
Westlock.....	10,187	7	.....	.....	.....	.....
Total.....	2,456,951	1,799	614,238	163,797	153,559	70,199

SUMMARY

Bituminous.....	2,402,185	2,920	600,546	66,727	96,087	36,957
Sub-bituminous.....	2,456,951	1,799	614,238	163,797	153,559	70,199
Total.....	4,859,136	4,719	607,392	95,277	118,516	48,591

Classification of Accidents according to output of mines which produced during the year 1954:

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal.....	...	1	...	1	1	3	...	2	...	8
Serious.....	1	1	...	4	8	18	...	16	3	51
Slight.....	...	...	...	3	6	16	1	12	3	41
Total.....	1	2	...	8	15	37	1	30	6	100

Tons of Coal Produced per Accident:

Fatal.....	...	72,828	...	439,090	655,811	335,966	...	881,124	...	607,392
Serious.....	15,391	72,828	...	109,773	81,980	55,994	...	110,111	101,367	95,277
Slight.....	...	...	...	146,363	109,307	62,994	523,628	146,854	101,367	118,516
Total.....	15,391	36,414	...	54,886	43,723	27,211	523,628	58,742	50,684	48,591

FATAL ACCIDENTS IN MINES

Otto Naegeli, Machine Boss, 56, on March 8th, in the mine operated by Midland Coal Mining Co. Ltd., Drumheller. While workman was pushing car with locomotive on 3 West Entry, car was derailed knocking out timber which allowed rock to fall on him, causing fatal injuries.

Eric Fregren, Mine Mechanic, 56, on March 19th, in the mine operated by Canadian Collieries (Dunsmuir) Ltd., Mercoal. While riding on trip of cars at 5 1/4 West, he, in some manner fell under the first and second cars, the effect from which he died.

Joseph Marchuk, Track Layer, 57, on April 8th, in the mine operated by Century Coals Ltd., Drumheller. While riding on motor on 6 E, 13 N E Entry, he was caught between a prop and the motor, the effects from which he died on April 13th, 1954.

Rod Cunningham, Rock Picker, 19, on June 28th, at the mine operated by Canadian Collieries (Dunsmuir) Ltd., Foothills. While attempting to brake a runaway box car, he was caught between small coal conveyor and box car, causing fatal injuries.

Robert Stratton, Mine Manager, 40, on August 26th, in the mine operated by Ajax Coal Co., Medicine Hat. While inspecting a coal cutting machine he received an electric shock, causing fatal injuries.

William Russell, Labourer, 46, on October 18th, at the mine operated by Coleman Collieries Ltd. (McGillivray Creek Mine), Coleman. While apparently oiling moving machinery he was caught by belt, causing fatal injuries.

Edward De Rudder, Labourer, 21, on October 19th, at the mine operated by Egg Lake Coal Co., Morinville. Spilled gasoline was ignited by the tractor he was operating and exploded, causing severe burns, the effects from which he died on October 24th, 1954.

J. Derbyshire, Labourer, 38, on December 8th, at the mine operated by Coleman Collieries Ltd. (International Mine), Coleman. While cleaning track at crossing in mine yard, workman was struck by Canadian Pacific open car, the effects from which he died.

In addition to the above, the following deaths occurred which were not entered as mine fatalities:

William A. Briggs, Examiner, 47, on April 22nd, in the mine operated by Midland Coal Mining Co. Ltd., Drumheller. Felt pain over heart and collapsed at 29 North. Death due to natural causes.

John Zawaski, Truck Driver, 52, on October 19th, at the mine operated by Ideal Coal Co., Priddis. While employed by Henry J. Hildebrand, Trucking Contractor, Calgary, he was loading coal at tippie chute and apparently became caught in sliding coal, causing fatal injuries.

John Hlasney, Trimmer, 24, on December 21st, in the mine operated by Red Deer Valley Coal Co. Ltd., Drumheller. Collapsed while walking to mantrip in No. 2 Crosscut, 9 North Main Entry. Death due to complicated heart condition.

FATAL ACCIDENTS IN QUARRIES

Sadajiro Nishikawa, Labourer, 55, on January 27th, at the quarry operated by Summit Lime Works Ltd., Crownsnest. While breaking and loading rock at the base of a ten-foot pile, top fell and caught him, causing fatal injuries.

George J. Ross, Blaster, 63, on May 8th, at the quarry operated by Perry Brick & Tile Co. Ltd., Redcliff. While carrying a small quantity of dynamite sticks into pit, dynamite accidentally exploded, causing fatal injuries.

THE MINES DIVISION

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1954

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January.....	...	1	1	2	...	8	3	11	13
February.....	...	3	..	3	...	2	4	6	9
March.....	...	1	1	2	...	2	3	5	7
April.....	...	...	...	...	...	3	..	3	4
May.....	...	...	1	1	...	1	3	4	5
June.....	1	...	1	2	...	5	1	6	8
July.....	...	1	...	1	...	4	1	5	6
August.....	...	...	...	...	...	3	2	5	6
September.....	...	...	1	1	...	2	5	7	8
October.....	2	1	1	4	...	7	3	10	14
November.....	...	...	2	2	...	4	4	8	10
December.....	1	...	2	3	...	3	2	5	8
Total.....	4	7	10	21	4	44	31	79	100

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND
DURING THE YEAR 1954

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Chute Loading.....	...	...	...	...	...	1	1	2	2
Coal-cutting Machinery.....	...	...	...	...	...	1	2	3	3
Coal Loading Machinery.....	...	...	...	...	...	2	..	2	2
Coupling Cars.....	...	...	...	...	...	1	2	3	3
Electricity.....	...	1	...	1	...	..	1	2	3
Fall of coal.....	...	...	...	...	...	8	1	9	9
Fall of rock.....	...	...	...	...	...	13	7	20	20
Haulage.....	...	...	1	1	...	9	3	15	16
Loading Coal.....	...	...	1	1	...	4	5	9	10
Miscellaneous.....	3	4	6	13	...	4	9	13	26
Timbering.....	...	...	...	...	...	1	...	1	1
Tipple Machinery.....	1	2	2	5	...	...	...	...	5
Total.....	4	7	10	21	4	44	31	79	100

Accidents occurring in the Province above and below ground for the year 1954, classified according to the area in which they occurred.

BITUMINOUS

Area	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade.....	...	1	1	2	...	5	2	7	9
Nordegg.....	...	3	1	4	...	2	2	4	8
Crowsnest.....	2	2	4	8	...	12	10	22	30
Coalspur.....	1	...	2	3	1	7	2	10	13
Lethbridge.....	...	...	1	1	...	3	...	3	4
Saunders.....	...	...	...	...	...	1	...	1	1
Total.....	3	6	9	18	1	30	16	47	65

SUB-BITUMINOUS

Drumheller.....	...	...	1	1	2	12	15	29	30
Edmonton.....	1	...	...	1	...	1	...	1	2
Castor.....	...	...	...	...	...	1	...	1	1
Redcliff.....	...	1	...	1	1	...	...	1	2
Total.....	1	1	1	3	3	14	15	32	35

THE MINES DIVISION

Classification of Accidents according to the Coal Fields in which they Occurred.

BITUMINOUS

Causes	Above Ground			Below Ground			Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Total
Rope Haulage, jumped off trip and struck post.....	1	1
Rope Haulage, bumped head and fell off trip.....	1	1
Rope Haulage, caught finger between car and post.....	1	1
Rope Haulage, dragged by cars.....	1	1
Rope Haulage, hand caught lifting car.....	1	1	...	...	...
Rope Haulage, caught hand between rope and drum.....	1	1
Horse Haulage, caught foot under car.....	1	1
Hand Haulage, caught hand between car and rope.....	1	1
Locomotive Haulage, thrown off derailed man trip.....	1	1
Locomotive Haulage, struck by derailed car.....	1	1
Locomotive Haulage, fell under car.....	1	...	1
Fall of rock in room.....	12
Fall of coal in room.....	3	4
Fall of coal in pillar.....	1	1
Loading Coal, dropped timber on foot.....	1	1
Loading Coal, struck by flying nail.....	1	1
Loading Coal, buried under cave.....	1	1
Loading Coal, hand caught between lumps of coal.....	1	1	...	...	1
Coal-loading Machinery, arm caught between machine and post.....	1	1
Tippie Machinery, fell and injured hand.....	1	1	...	...	1
Tippie Machinery, caught finger on side of table.....	1	1	...	...	1
Tippie Machinery, caught in moving belt.....	1	...	...	1	...	...	1
Tippie Machinery, caught in moving gears.....	...	1	...	1	...	...	1
Timbering, leg caught between timbers.....	1
Coal-cutting Machinery, bar fell on foot.....	1	1

BITUMINOUS (Cont'd)

	3	6	9	18	1	30	16	47	65
Coupling Cars, caught between motor and post.....	1	...	1
Chute Loading, struck by fall of coal.....	1	...	1
Chute Loading, struck by piece of coal.....	1	1
Electricity, drill jammed throwing workman to ground.....	...	1	...	1	...	...	...	...	1
Electricity, burned calf of leg.....	...	2	...	2	...	2	...	...	1
Miscellaneous, slipped and fell.....	1
Miscellaneous, truck collision on road.....	...	1	...	1	...	...	...	3	5
Miscellaneous, caught hand between truck and bin.....	1	1	...	...	...	...	1
Miscellaneous, caught fingers between timbers.....	1
Miscellaneous, struck by railway car.....	1	...	...	1	...	...	...	1	1
Miscellaneous, cut thumb with axe.....	1
Miscellaneous, pinched hand between cars.....	1	1
Miscellaneous, struck by timber.....	...	1	...	1	...	...	...	...	1
Miscellaneous, Jack slipped and caught finger.....	1	1	...	...	...	...	1
Miscellaneous, repairing tractor, hand caught by fan.....	1	1	...	...	...	...	1
Miscellaneous, burned while lighting stove.....	1	1	...	...	...	...	1
Miscellaneous, caught finger between steel and truck.....	1	1	...	...	...	...	1
Miscellaneous, squeezed between roof and car.....	1	1	...	...	...	...	1
Miscellaneous, caught thumb in drill.....	1	1	1
Miscellaneous, struck by moving box car.....	1	...	...	1	...	...	...	...	1
Miscellaneous, caught leg between rail and rock.....	1	...	1
Miscellaneous, struck by falling post.....	1
Total.....	3	6	9	18	1	30	16	47	65

SUB-BITUMINOUS

Hand Haulage, twisted ankle while pushing car.....	...	...	...	...	...	1	...	1	1
Locomotive Haulage, fell under cars.....	...	...	...	...	...	...	...	1	1
Locomotive Haulage, squeezed between motor and prop.....	...	...	...	...	...	1	...	1	1
Locomotive Haulage, finger caught by trolley pole standard.....	...	...	...	...	...	...	1	1	1
Locomotive Haulage, rock fell on hand.....	...	...	...	...	...	...	...	1	1
Fall of rock in entry.....	...	...	...	...	...	...	2	2	2
Fall of rock in room.....	...	...	...	...	...	...	3	3	3
Fall of rock in pillar.....	...	...	...	...	...	...	...	1	1
Fall of coal in entry.....	...	...	...	...	...	...	...	1	1
Fall of coal in room.....	...	...	...	...	...	...	3	3	3
Loading Coal, loading machine ran over foot.....	...	...	...	...	...	...	1	1	1
Loading Coal, foot slipped under loader tracks.....	...	...	...	...	...	...	...	...	1
Loading Coal, foot caught under Joy loader.....	...	...	...	...	...	...	...	...	1
Loading Coal, slipped off bench.....	...	...	...	...	...	...	3	3	3
Coal-loading Machinery, struck by boom while repairing broken chain.....	...	...	...	...	...	...	1	1	1
Tipple Machinery, hand caught in pulley.....	...	1	...	...	...	1	...	...	1
Coal-cutting Machinery, jack slipped and caught finger.....	...	...	...	...	...	...	...	...	1
Coal-cutting Machinery, struck by jumping machine.....	...	...	...	...	...	...	...	1	1
Coupling Cars, caught finger between cars.....	...	...	...	...	...	...	2	2	2
Electricity, electrocuted by short-circuit in cutting machine.....	...	...	...	...	...	...	...	1	1
Miscellaneous, struck by falling timber.....	...	...	...	...	...	...	1	1	1
Miscellaneous, caught finger between loose conveyor pans.....	...	...	...	...	...	...	1	1	1
Miscellaneous, struck foot on rail.....	...	...	...	...	...	...	1	1	1
Miscellaneous, hand caught between chute and bone.....	...	...	1	...	...	...	...	...	1
Miscellaneous, burned by gasoline.....	1	...	...	...	...	1	...	...	1
Total.....	1	1	1	3	3	3	14	15	35

SUMMARY

Bituminous.....	3	6	9	18	1	30	16	47	65
Sub-bituminous.....	1	1	1	3	3	14	15	32	35
Total.....	4	7	10	21	4	44	31	79	100

THE MINES DIVISION

SUB-BITUMINOUS

Ajax Coal Company.....	Redcliff.....	1	...	1	1	1	1	...	...	1	1	2
Amalgamated Coals Ltd.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	2
Brilliant Coal Co. Ltd.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	2
Century Coals Ltd. (422).....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	3
Century Coals Ltd. (1484).....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	8
Dolan, Dolan & Strickland.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	1
Egg Lake Coal Co. Ltd.....	Castor.....	...	...	...	...	...	...	...	...	...	...	1
J.B. Starkey Coal Co. Ltd.....	Edmonton.....	1	...	...	...	...	...	...	...	...	...	1
Midland Coal Mining Co. Ltd.....	Edmonton.....	...	...	...	...	...	...	...	...	...	...	1
Red Deer Valley Coal Co. Ltd.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	1
Saskatchewan Federated Co-operatives Ltd.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	2
Star Coal Mining Co. Ltd.....	Drumheller.....	...	...	...	...	...	...	...	...	...	...	9
	Drumheller.....	...	...	...	...	...	...	...	...	...	...	1
	Drumheller.....	...	...	...	...	...	...	...	...	...	...	4
Total.....	.....	1	1	1	3	3	3	14	15	32	35	

SUMMARY

Bituminous.....	.....	3	6	9	18	1	30	16	47	65	
Sub-bituminous.....	.....	1	1	1	3	3	14	15	32	35	
Total.....	.....	4	7	10	21	4	44	31	79	100	

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1954.

Mine in which Contravention was committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Mt. Royal Collieries Ltd.....	Farmer.....	Did willfully and unlawfully enter a mine without first having obtained permission from the owner, agent or manager, overman or outside foreman.....	Convicted...	Fined \$10.00.....	\$5.00
Mt. Royal Collieries Ltd.....	Farmer.....	Did willfully and unlawfully enter a mine without first having obtained permission from the owner, agent or manager, overman or outside foreman.....	Convicted...	Fined \$10.00.....	\$5.00
Louis T. Opheim.....	Owner.....	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$10.00.....	\$5.10
John Melesko.....	Operator.....	Did fail to have a foreman in charge while operating a mine.....	Convicted...	Fined \$15.00.....	\$2.00
Willow Valley Coal Company....	Operator.....	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$10.00.....	\$4.50
Dawn Coal Mining Company.....	Owner.....	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$10.00.....	\$4.50
Mt. Royal Collieries Ltd.....	Agent.....	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$15.00.....	\$2.75
Chappell Brothers.....	General Manager	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$10.00.....	\$2.00
Chappell Brothers.....	General Manager	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$10.00.....	\$2.00

THE MINES DIVISION

Mt. Royal Collieries Ltd.....	Agent.....	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month....	Convicted...	Fined \$25.00.....	\$4.05
Carmore Mines Ltd.....	Fireboss...	Did assault a hoistman in the mine while on duty.....	Convicted...	Fined \$50.00.....	\$4.50
Lethbridge Collieries Ltd.....	Overman.....	Did permit a man to be at the working face without the necessary certificate..	Convicted...	Fined \$10.00.....	\$2.00
Sask. Fed. Co-ops. Ltd.....	Miner.....	Did unlawfully ride on a loaded mine car underground without having permission to do so from the manager, overman or other proper official.....	Convicted...	Fined \$15.00.....	\$2.00
Sask. Fed. Co-ops. Ltd.....	Miner.....	Did unlawfully ride on a loaded mine car underground without having permission to do so from the manager, overman or other proper official.....	Convicted...	Fined \$15.00.....	\$2.00
Ajax Coal Company.....	Overman.....	Did permit miner to shoot shots.....	Convicted...	Fined \$20.00.....	\$2.00
Steve's Mine.....	Overman.....	Did permit an uncertificated person to shoot shots.....	Convicted...	Fined \$25.00.....	\$2.00
Steve's Mine.....	Overman.....	Did fail to fire shots electrically.....	Convicted...	Fined \$10.00.....	\$2.00
Steve's Mine.....	Miner.....	Did shoot a shot, being an uncertificated examiner.....	Convicted...	Fined \$10.00.....	\$2.00
LIST OF PROSECUTIONS INSTITUTED UNDER THE QUARRIES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1954.					
Loders Lime Co. Ltd.....	Foreman.....	Did fail to enter a report of inspection for quarry.....	Convicted...	Fined \$ 5.00.....	\$4.50

NUMBER OF MINES OPENED, RE-OPENED, CLOSED AND ABANDONED
ACCORDING TO AREAS AND KIND OF COAL DURING THE YEAR.

Director of Mines - J.A. Dutton, Provincial Building,
Edmonton, Alberta. Telephone - 22698.

Assistant Director of Mines - J. Horne, Provincial Building,
Edmonton, Alberta. Telephone - 22889.

Electrical Inspector of Mines - B. Tait, Provincial Building,
Edmonton, Alberta. Telephone - 28614.

Inspection District	Area	Area Number	Character of coal	No. of Mines in operation at Dec. 31/54.	No. of Mines opened during the year.	No. of Mines re-opened during the year.	No. of Mines closed during the year.	No. of Mines abandoned during the year.	Name and Address of District Inspectors of Mines
Blairmore	Crowsnest	12-13	Bituminous	7	..	1	3	..	P. Melson, Blairmore, Alta. Telephone 2160.
	Oldman	26	Bituminous	..	..	..	..	..
	Pincher	32	Bituminous	1	1	1	..	1	
Calgary	Big Valley	2	Bituminous	1	..	1	1	..	A. Muir, Provincial Bldg., Calgary, Alta. Telephone 28584
	Carbon	6	Bituminous	10	1	5	5	1	
	Cascade	7	Bituminous	1	..	..	..	1
	Gleichen	17	Sub-bituminous	3	..	..	..	..
	Pekisko	30	Bituminous	1	..	..	..	..
Drumheller	Big Valley	2	Sub-bituminous	1	..	1	1	1	R. Shaw, Drumheller, Alta. Telephone 2413.
	Drumheller	14	Sub-bituminous	17	..	3	3	2	
	Sheerness	38	Sub-bituminous	3	..	2	2	1	
Edmonton	Ardley	1	Sub-bituminous	3	..	2	2	1	J. Thomson, Provincial Bldg., Edmonton, Alta. Telephone 28612.
	Camrose	5	Sub-bituminous	4	..	2	4	1	
	Castor	8	Sub-bituminous	14	1	12	11	6	
	Edmonton	15	Sub-bituminous	11	..	1	6	7	
	Halcourt	18	Bituminous	2	..	2	1	..	
	Nordeg	25	Bituminous	1	..	..	..	..
	Pembina	31	Sub-bituminous	3	..	2	2	..	
	Saunders	36	Bituminous	1	1	..	..	1
	Tofield	42	Sub-bituminous	5	..	2	3	..	
	Westlock	45	Sub-bituminous	2	..	1	2	..	
	Wetaskiwin	46	Sub-bituminous	..	..	..	..	..
	No Area	..	Bituminous	..	..	..	..	1
Edson	Coalspur	11	Bituminous	3	..	1	2	2	A.L. Lister, Edson, Alberta, Telephone 3583.
	Mountain Park	24	Bituminous	1	..	..	..	..
	Pembina	31	Sub-bituminous	3	1	2	2	4	
	Prairie Creek	33	Bituminous	1	..	1	1	..	
	Whitcourt	47	Sub-bituminous	2	..	2	2	1	
	No Area	..	Sub-bituminous	..	..	..	..	..
Lethbridge	Brooks	3	Sub-bituminous	2	..	1	1	..	J.D.B. Brown, Lethbridge, Alta. Telephone 3325.
	Champion	9	Sub-bituminous	2	..	..	..	..
	Lethbridge	20	Bituminous	7	..	4	5	1	
	Pakowki	28	Sub-bituminous	1	..	1	1	..	
	Redcliff	34	Sub-bituminous	1	..	..	..	..
	Taber	41	Sub-bituminous	2	..	1	2	3	
	Total.....	116	5	51	62	35	

NOTE: 34 mines reported as being closed as at December 31st, 1953, were abandoned in 1954.

THE MINES DIVISION

BOARD OF EXAMINERS

The Central Board of Examiners during the year 1954 consisted of the following:

As representing:

The Mine Inspectorate: J. A. Dutton, Director of Mines.
 Managers: P. M. Ramsay and A. Crawford.
 Working Miners: A. Ragon and H. R. Sherwood.
 Secretary: Muriel Roberts.

Examinations for all classes of certificates were held at Blairmore, Drumheller, Edmonton and Edson on June 1st, 2nd, 3rd and 4th, the results of which were as follows:

Five candidates presented themselves for examination for First Class Certificates, of whom two were successful.

Two candidates presented themselves for examination for Second Class Certificates, neither of whom were successful.

Eight candidates presented themselves for examination for Third Class Certificates, of whom four were successful.

Eight candidates presented themselves for examination for Mine Surveyors' Certificates, of whom four were successful.

Seven candidates presented themselves for examination for Mine Electricians' Certificates, five for First Class of whom three were successful, and two for Second Class of whom one was successful.

Three candidates presented themselves for examination for Strip Mine Managers' Certificates of whom one was successful. In addition thereto, there were two Strip Mine Managers' Certificates issued without examination.

Ten candidates presented themselves for examination for Strip Mine Foremen's Certificates, of whom nine were successful.

Five candidates presented themselves for examination for Strip Mine Blasters' Certificates, of whom four were successful.

The list following herewith gives names of successful candidates for all classes of certificates issued by the Government of the Province of Alberta during the year 1954.

FIRST CLASS

Name	Address	Cert. No.	Date of Certificate
Dupret, Louis E.	Blairmore	21	12- 7-54
Hucik, Louis T.	Blairmore	22	12- 7-54

THIRD CLASS

Balog, Milan	Frank	118	12- 7-54
May, William J. A. N.	Drumheller	119	12- 7-54
Powell, Roy S.	East Coulee	116	12- 7-54
Reynolds, Arthur C.	Robb	117	12- 7-54

MINE SURVEYOR

Blasetti, Angelo	East Coulee	28	12- 7-54
Horne, James	Edmonton	27	12- 7-54
Potter, Idwal N.	Drumheller	25	12- 7-54
White, James B. **	Aerial	26	12- 7-54

FIRST CLASS MINE ELECTRICIAN

Auger, Norman L.	Nacmine	25	12- 7-54
Miller, Leonard E. A.	Drumheller	24	12- 7-54
Mizera, Lawrence D.	Edmonton	26	12- 7-54

SECOND CLASS MINE ELECTRICIAN

Wakaruk, George	Drumheller	17	12- 7-54
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STRIP MINE MANAGER

Daintith, Joseph	Camrose	80	12- 7-54
Huck, Louis T.	Blairmore	81	14- 9-54
Lagunoff, Victor V.	East Coulee	79	29- 1-54

STRIP MINE FOREMAN

Campion, Samuel J.	Halkirk	131	12- 7-54
Harrison, John W.	Ryley	134	12- 7-54
McQuaker, Robert G.	Warburg	133	12- 7-54
Nelson, Roland G.	Rosedale	128	12- 7-54
Ostrowski, Joe	East Coulee	135	12- 7-54
Petruch, Florian	Warburg	136	12- 7-54
Rice, Robert G.	Sheerness	130	12- 7-54
Stella, Albert**	Blairmore	129	12- 7-54
Ward, Walter B.	Sheerness	132	12- 7-54

STRIP MINE BLASTER

Brown, Richard G. F.	Mercoal	28	12- 7-54
Saboe, Owen L.**	Forestburg	29	12- 7-54
Schultz, Lawrence D.	Halkirk	30	12- 7-54
Voynovich, Rade	Robb	27	12- 7-54

**Certificate not issued as at December 31st, 1954.

PARTICULARS RE QUARRY BLASTERS' EXAMINATIONS

Examinations for Quarry Blasters' Certificates were held on January 28th, May 27th, June 1st, June 3rd, September 9th and September 23rd, at Exshaw, Blairmore, Redcliff and Canmore. Eleven candidates presented themselves for examination, all of whom were successful.

The list following herewith gives names of successful candidates for such certificates, issued by the Government of the Province of Alberta during the year 1954.

QUARRY BLASTERS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Cunliffe, Jack A.	Medicine Hat	11	27- 5-54
Dordevic, Mike	Crowsnest, B.C.	14	7- 5-54
Jasman, Joseph**	Redcliff	9	27- 5-54
Lawson, Alan B.	Exshaw	17	27- 9-54
Mills, Alfred V.	Exshaw	7	1- 2-54
Pedersen, Robert**	Redcliff	10	27- 5-54
Perry, John A.	Medicine Hat	12	27- 5-54
Richter, Paul	Medicine Hat	16	13- 9-54
Schneider, Reinhold**	Redcliff	13	27- 5-54
Schoenberg, Kaspar	Exshaw	8	1- 2-54
Spagis, John	Canmore	15	7- 6-54

**Certificate not issued as at December 31st, 1954.

THE MINES DIVISION

LIST OF HOLDERS OF FIRST, SECOND AND THIRD CLASS CERTIFICATES,
MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES, STRIP
MINE MANAGERS', FOREMEN'S AND BLASTERS' CERTIFICATES
AND QUARRY BLASTERS' CERTIFICATES.

Issued by the Government of the Province of Alberta to December 31st, 1954.

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
*Addie, W.	Lundbreck	19	25- 8-03
*Alderson, Fred D.	Hosmer, B.C.	52	27- 9-11
*Allen, Peter	Coleman	72	5-11-12
Aschacker, Martin	Blairmore	16	13- 7-48
Ashburn, Edward	Lethbridge	40	9-12-10
Aspinall, Francis	Bellevue	22	1- 3-09
Barclay, William	Drumheller	11	31- 7-36
Barnes, Arthur W.	Passburg	74	7-11-12
*Bastian, J.	Taber	43	19- 7-64
Baxter, Andrew W.	Lethbridge	47	22-12-10
Bhattacharjee, Santosh K.	Coleman	11	16- 7-51
Bilson, George H.	Beverly	27	28- 6-18
*Black, Ernest D.	Coalhurst	84	29- 7-13
Blair, John	Wayne	55	24- 7-24
Blake, Henry	Bellevue	25	27- 7-17
Blasetti, Angelo	Nordegg	7	19- 7-50
Bradshaw, G. B.	Nanaimo, B.C.	61	16- 5-05
Brady, John	Canmore	14	20- 7-43
Broome, G. H.	New Zealand	46	28-11-04
Brown, David T.	Blairmore	14	14- 7-52
Brown, Hugh R.	Commerce	26	28- 6-18
*Brown, J.	Banff	18	24- 8-03
Brown, J. D. B.	Saunders	12	1- 8-42
Brown, R. J.	Coal Creek, B.C.	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
*Brownrigg, John H.	Bankhead	21	17- 7-17
Brusset, John A.	Blairmore	10	1- 8-42
Brydon, Andrew D.	Canmore	4	18- 9-14
Burton, John T.	Edmonton	13	8- 8-36
*Callander, Ira C.	Pocahontas	13	12- 8-16
Campbell, Thomas	Drumheller	13	14- 7-43
Chavignaud, Louis G.	Luscar	71	6- 8-27
*Christianson, Peter	Edmonton	48	21-12-10
Church, J. A. H.	Frank	11	23- 1-08
*Clyne, James	Canmore	69	18- 3-12
Clyne, James M.	Edmonton	16	13- 7-44
Cochrane, James	Cumberland, B.C.	12	31- 7-47
Collins, W. F.	Blairmore	24	31-10-03
*Colville, A.	Edmonton	52	19- 1-05
Congdon, Milton H.	Blairmore	1	17- 7-40
Coulthard, R. W.	Blairmore (duplicate)	24	11-10-09
Coupland, Edward	Cadomin	56	24- 7-24
Crabb, Daniel J.	Lethbridge	13	13- 7-48
Cranston, Michael	Drumheller	35	2- 7-19
Crawford, Alexander	Alexo	61	24- 7-25
Crawford, Hugh	Lethbridge	5	11- 7-41
Crawford, John	Edmonton	65	26- 7-26
*Crowder, Harry	Edmonton	5	18- 9-14
*Crowder, James	Coleman	38	24-12-09
*Cumberford, James	Drumheller	80	19- 1-31
*Cunningham, G. F.	Edmonton	7	10- 1-08
D'Altroy, A. C.	Wayne	53	17- 8-23
Dalziel, Robert	Beverly	8	29- 7-33
D'Amico, Zupito	Nordegg	3	16- 7-49
*Darbyshire, J.	Bellevue	35	3-12-09
*Davidson, David	Bellevue	15	12- 8-16
Davidson, J. M.	Edmonton	75	23- 7-29
*Davidson, W. A.	Coleman	25	27-11-09
Davies, Thomas O.	Entrance	22	17- 7-17
*Davis, David	Coleman	62	28-11-11
deHart, Joseph B.	Coalhurst	86	29- 7-13
Dennis, Fred W.	Brooks	12	28-10-15
*Dickson, G. H.	Coleman	3	31- 5-06
Dickson, James	Victoria, B.C.	9	3- 3-47
Dinsdale, William	Telkwa, B.C.	1	14- 5-49
Donaldson, Adam G.	Shaughnessy	14	23- 8-37
Donaldson, Chris S.	Lethbridge	20	17- 7-17
Douglas, Peter S. Jr.	Cadomin	14	13- 7-48
*Drinnan, R. G.	Fernie, B.C.	29	30- 1-04
Duggan, William H.	Edmonton	85	29- 7-13
*Dunn, A. C.	Edmonton	18	13- 1-09
Dunn, Robert A.	Nacmine	15	27- 8-43
Dupret, Louis E.	Blairmore	21	12- 7-54
Dutton, J. A.	Mountain Park	4	25- 7-32
Elliott, D.	Blairmore	20	13-10-03
*Ellis, William	Nanton	15	8- 1-09
Emmerson, C.	Bellevue	49	9- 1-05

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LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Emmerson, J.	Canmore (duplicate)	41	25- 8-19
Erikson, Robert G.	Mercoal	6	19- 7-50
*Evans, D.	Michel, B.C. (duplicate)	14	11-12-02
Evans, Howell	Luscar	6	25- 7-46
*Ferguson, C. J.	Mountain Park	23	17- 7-17
*Finlayson, J.	Frank	30	10- 2-04
Flint, W. G.	Canmore	56	13- 4-05
Foster, William	Edmonton	40	12- 8-19
France, Thomas	Nordegg	44	8-10-19
*Fraser, G. L.	Coleman	1	31- 5-06
*Fraser, Norman	Michel, B.C.	1	21-12-05
Fraser, William B.	Coleman	1	16- 7-45
Gardner, H. H.	Coleman	9	18-12-34
Givin, Homer H.	Royal View	57	23-11-11
Goodwin, William	Bellevue	12	4- 8-36
Gotheridge, William T.	Round Hill	54	16- 7-24
Graham, C.	Nanaimo, B.C.	7	27- 2-06
Gray, David, Jr.	Cochrane	65	4-12-11
Green, R.	Blairmore	58	26- 4-05
Guernsey, F. W.	Bankhead	80	18-12-12
Hall, William E. G.	Coleman	58	20- 7-25
Hamilton, Allan	Blairmore	52	17- 8-23
Hamilton, Duncan C.	Luscar	7	15- 7-41
Hamilton, Robert	Lundbreck	4	3- 1-07
*Hamilton, W. L.	Passburg	4	2-12-98
*Hardie, W. D. L.	Lethbridge	2	15-10-98
*Hargreaves, James	Taber (duplicate)	48	9- 1-05
*Harrison, Stephen	Lethbridge	16	11- 1-09
Hart, John	Edmonton	23	23- 3-09
*Heathcote, Elijah	Coal Creek, B.C.	23	31-10-03
Heeley, William G.	Edmonton	36	3- 7-19
Henrietta, Charles M.	Byseville, U.S.A.	26	24-11-03
Hetherington, W. B.	Calgary	38	9- 7-19
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Higgins, Alexander	Calgary	19	7- 7-17
Hnatyshyn, A. C.	Luscar	6	22- 3-33
*Holden, James	Bankhead	14	7- 1-09
*Hooks, Albert	Calgary	11	18- 7-47
Hooyberg, Adrian	Blairmore	8	19- 7-50
Horne, James	Cadomin	21	21- 7-39
Horne, Robert	Coleman	12	7- 1-09
Horne, Thomas	Coleman	6	26-12-07
Howden, A. B.	Michel, B.C.	50	1- 8-21
Howells, Nathaniel	Bellevue	64	4-12-11
Huck, Louis T.	Blairmore	22	12- 7-54
*Hunter, Alexander B.	Coleman	14	12- 8-16
*Huntrods, E. S. F.	Taber	3	29-12-05
*John, John	Fernie, B.C.	44	29- 4-04
*Johnson, Moses	Taber	79	14-11-12
Jones, Daniel	Robb	17	14- 7-44
Jones, David	Strathcona	67	27-11-11
*Jones, Griffith	Edmonton	63	21-10-25
Jones, J. R. B.	Edmonton	18	21- 7-38
*Jones, Samuel A.	Lethbridge	57	26- 4-05
*Jordan, William	Taber	11	8- 9-15
*Keith, Thomas	Taber	20	29- 1-09
*Kellock, George	Coleman	59	23-11-11
*Kellock, James	Coleman	76	8- 8-30
Kerr, Alex	Tonkin, B.C.	27	18-12-03
*Kinsman, Alexander	Hosmer, B.C.	70	11- 5-12
Knox, Thomas K.	Coal Creek, B.C.	28	30-11-09
Kubin, John J.	Luscar	9	19- 7-50
Lagunoff, Victor	Elsa, Y.T.	19	11- 7-53
*Leblanc, Emile	Taber	6	18- 9-14
*Lee, Robert J.	Elean	56	23-11-11
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Lindoe, Luke	Coleman	77	8- 8-30
Little, John	Coalfields	5	2-12-98
Little, W. F.	Canmore	4	29-12-05
Lister, Arthur L.	Cadomin	3	18- 7-45
*Livingstone, Robert	Lethbridge	16	
Livingstone, R. D.	Lethbridge	7	29- 7-46
Louhela, Sulo	Canmore	18	11- 7-53
Manley, Henry L.	Fernie, B.C.	41	3- 6-04
*Marsh, John	Taber	6	1- 2-06
Marshall, John W.	Clover Bar	78	13-11-12
Marshall, Thomas	Calgary	8	13- 9-46
*Mather, Thomas	Bickerdike	81	20- 7-13
Maxwell, William	Pincher Creek	27	29-11-09
Melnik, Nick	Cadomin	4	11- 7-41
Melson, Philip	East Coulee	2	16- 7-45
Millar, Andrew A.	Edmonton	54	23-11-11
Millar, David	Edmonton	2	25- 8-31
Miller, Henry	Rosedale	8	25- 7-41
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Milne, Morgan C.	Peachontas	83	24- 7-13

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Moore, Samuel M.	Bankhead	26	27-11-09
Morgan, Dewi R.	Fernie, B.C.	16	18- 7-52
Morgan, Evan H.	Wayne	3	27- 9-31
Morgan, Owen	Saunders (duplicate)	19	4- 5-45
Morgan, Thomas E.	Hillcrest	15	26- 8-37
*Morris, Cyrus	Frank	12	13- 2-02
*Morris, James J.	Canmore	3	3-11-98
Morris, William	Foothills	1	26- 7-31
Morrison, Edward	Fernie, B.C.	62	28- 9-25
*Morton, T. R.	Michel, B.C.	63	21- 7-05
Mrokvia, Victor, Jr.	Canmore	18	15- 7-44
Muir, Alexander	Alexo	6	11- 7-41
Musgrove, William	Canmore	76	11-11-12
Macaulay, Angus G.	Coleman	9	16- 8-15
*Macaulay, Donald A.	Coleman	42	9-12-10
MacKinnon, Donald F.	Robb	17	14- 7-52
MacKinnon, Hugh G.	Canmore	20	20- 7-39
McAndrew, John M.	Calgary	11	1- 8-42
McCulloch, James	Corbin, B.C.	41	17-12-10
McDonald, Duncan	Canmore	60	23-11-11
McDonald, H. S.	Bellevue	17	7- 7-17
*McDonald, John R.	Medicine Hat	29	30-11-09
McDonald, Leslie M.	Bellevue	23	28- 7-39
*McDonald, Noble M.	Bellevue	33	9- 7-18
*McEvoy, James	Fernie, B.C.	17	1- 8-03
McGuckie, Thomas M.	Wayne	43	1-10-19
McIntyre, John J.	Rosedale	39	25- 7-19
McKay, Walter	Michel, B.C.	10	28- 5-47
*McKelvie, James	Nordegg	7	26-10-14
McLean, Donald	Ladysmith, B.C.	62	22- 5-05
McLean, Michael D.	Michel, B.C.	68	30- 8-26
McLehnan, J. A.	Strathcona	39	13- 1-10
*McLeod, John A.	Bankhead	18	7- 7-17
*McMillan, J. H.	Lethbridge	17	12- 1-09
McMullen, Arthur	Nordegg	3	6-11-40
*McVicar, Samuel	Frank	59	26- 4-05
*Nugent, Bernard	Drumheller	57	1- 8-24
*O'Donnell, Thomas	Kipp	61	28-11-11
Olynek, Edward	Bellevue	13	16- 7-51
Panchysyn, Edward J.	Blairmore	12	16- 7-51
*Parker, John L.	North Star	25	13-11-03
Pascoe, Thomas	Mountain Park	78	8- 8-30
*Pavier, Evan L.	Drumheller	24	24- 7-17
Pearson, Robinson	Fernie, B.C.	11	19-11-01
Pearson, R. N.	Frank	38	10- 5-04
Peta, Julius	Lethbridge	10	19- 7-50
Pickles, William	Cardiff	77	11-11-12
Pitcher, Norman C.	Lethbridge	75	11-11-12
Platt, John	Calgary	2	14- 5-49
Potter, Idwal N.	Willow Creek	22	25- 7-39
Powell, John W.	Coleman	60	10- 5-05
*Puckett, Owen L.	Drumheller	29	3- 7-18
Quigley, D. H.	Coalhurst	28	26- 6-18
*Quigley, James S.	Hillcrest	21	1- 2-09
Raisbeck, Luke	Taber	47	28-11-04
Ramsay, P. M.	Canmore	34	12-11-18
Rappell, Thomas	Canmore	17	1- 9-37
*Reed, Thomas	Northfield, B.C.	5	
Reid, Adam H.	Commerce	8	18- 9-14
Reid, John C.	Lethbridge	53	4-12-11
*Reynolds, E. E.	Lethbridge	33	5- 4-04
*Richards, Clifton C.	Bankhead	36	13-12-09
*Richards, James A.	Edmonton	39	17- 5-04
Richards, Russell	Nordegg	60	20- 7-25
Riva, Walter J.	Canmore	5	19- 7-50
Robert, Louis P.	Blairmore	10	16- 8-15
*Roberts, Edward I.	Strathcona	55	18-11-11
Robertson, John	Frank	2	22-12-05
*Robertson, John	Lundbreck	9	18- 1-08
Russell, James	Lethbridge	8	8-12-14
Russell, John	Clover Bar	44	22-12-10
*Russell, Thomas	Victoria, B.C.	45	28-10-04
Sandino, J. A.	Drumheller	5	25- 7-32
Saville, Enoch O.	Taber	45	22-12-10
Scott, Alex	Strathcona	5	26-12-07
Scott, A. N.	Edmonton	19	25- 1-09
Scott, Thomas W.	Cadomin	67	17- 8-26
Shanks, David	Nordegg	16	4-11-16
*Shanks, John	Coal Creek, B.C.	51	17- 1-11
*Sharp, Alex	Rossland, B.C.	53	22- 2-05
Shaw, Robert	Blairmore	5	1- 8-45
*Shaw, William	Canmore	46	22-12-10
Shepherd, F. H.	Victoria, B.C.	34	2- 5-04
*Shone, Samuel	Coleman	33	2-12-09
Simister, Charles	Fernie, B.C.	21	13-10-03

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
*Smith, Frank B.	Edmonton	7	4- 6-01
Smith, Terence	Edmonton	10	1- 8-35
Smith, Thomas E.	Coalhurst	31	3- 7-18
Sparrow, Edwin	Lundbreck	13	7- 1-09
Stevens, Leonard C.	Coal Creek	31	2-12-09
Stevenson, John	Lethbridge	68	6-12-11
Stevenson, John	Hillcrest	46	26- 7-20
Stevenson, William, Jr.	Pinto, Sask.	37	29- 7-13
Stewart, James M., Jr.	Nordegg	48	26- 7-20
*Stewart, R. T.	Fernie, B.C.	50	12- 1-11
*Stirling, John T.	Edmonton	8	16- 1-08
*Stockett, Lewis	Bankhead	51	19- 1-05
Stockett, Thomas R., Jr.	Nanaimo, B.C.	10	19-11-01
*Strachan, Robert	Fernie, B.C.	31	10- 2-04
Stratton, Robert	East Coulee	20	11- 7-53
Symons, C. C.	Coalfields	37	2- 5-04
Tennant, Robert	Coleman	59	20- 7-25
*Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, David R.	Edmonton	2	12-10-40
Thomas, John Ira	Edmonton	49	16- 1-11
*Thomas, Joseph D.	Passburg	66	4-12-11
Thomas, Willis P.	Diamond City	58	23-11-11
Thomson, John	Edmonton	9	17- 7-42
Thorne, B. L.	Hosmer, B.C.	32	2-12-09
Touhey, James B.	Drumheller	19	27- 7-38
*Turner, John T.	Coalhurst	49	1- 8-21
Vivyyurka, John	Wabamun	4	26- 7-45
Waite, Archibald	Taber	15	9- 4-03
*Wall, W. H.	Nanaimo, B.C.	32	10- 2-04
*Wark, S. D.	Passburg	37	15-12-09
Watson, Ronald H.	Mountain Park	37	3- 7-19
*Watson, William	Coleman	73	7-11-12
Watters, Alexander G.	Bankhead	32	5- 7-18
Watters, John	Bankhead	30	30-11-09
*Weatherby, C.	Coleman	2	31- 5-06
*Welch, James D.	Nordegg	1	18- 9-14
White, E. Proctor	Lethbridge	8	17- 6-01
White, James B.	Nordegg	15	13- 7-48
*Whiteside, O. E. S.	Coleman	6	15-12-98
Whittaker, W. C.	Nordegg	74	29- 7-28
*Wilkinson, George	Victoria, B.C. (duplicate)	45	21-11-19
*Willey, Edward	Fernie, B.C.	71	1-11-12
Williams, Arthur E.	Saunders	69	1- 8-27
Williams, Thomas B.	Canmore	2	18- 9-14
Williams, T. H.	Taber	10	18- 1-08
*Williams, W. P.	Blairmore	36	2- 5-04
Wilson, Andrew	Coleman	70	1- 8-27
Wilson, Arthur R.	Lethbridge	23	12- 1-04
*Wilson, David G.	Hosmer, B.C.	22	31-10-03
Wilson, William	Edmonton	72	19- 7-28
Wilton-Clark, H.	Coleman	66	26- 7-27
Worthington, W. T.	Edmonton	16	26- 8-37
Worthington, Willard T., Jr.	Edmonton	4	16- 7-49
*Wright, H. B.	Fernie, B.C.	40	25- 5-04
*Wyllie, John B.	Frank	13	25-11-02
Yates, Frank	Michel, B.C.	73	29- 7-28
Young, Charles	Bellevue	15	11- 7-52
Young, David B.	Rosedale	64	26- 7-26

* Deceased.

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Adams, Thomas H.	Coalhurst	127	26- 7-20
Adlam, William	Hillcrest	107	15- 7-19
Ainsworth, John H.	Halkirk	25	24- 7-42
Alexander, William	Bellevue	68	30- 7-38
Allen, Edgar	Coleman	16	18- 7-46
*Allen, Peter	Coleman	72	20-12-11
Allen, William C.	Edmonton	22	7- 9-15
*Anderson, J.	Bellevue	2	30- 5-06
*Anderson, Peter B.	Mountain Park	139	26- 7-20
Anderson, William	Coleman	44	13- 7-48
Appleby, Wm. S.	Canmore	18	17- 7-42
*Armstrong, John	Nordegg	110	16- 7-19
Aschacker, Martin	Blairmore	17	20- 1-42
Ashman, Alfred W.	Calgary	88	3- 7-19
Ashurst, William	Coleman	51	17- 7-17

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Aspinall, Francis	Bellevue	27	27- 5-08
Atherton, Edward	Mountain Park	49	17- 7-17
Badham, Thomas	Coleman	104	15- 7-19
Baich, Victor	Luscar	1	16- 7-45
Bainbridge, George E.	Nordegg	183	12-12-24
Bainbridge, James	Medicine Hat	112	5- 8-19
Baines, Arthur	Lethbridge	41	13- 7-48
Balkwill, F. W.	Hillcrest	20	17- 7-42
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Bamling, J.	Diamond City	44	2-12-09
Barclay, Andrew	Frank	111	18-11-12
Barclay, Peter	Rosedale	4	3- 8-40
Barclay, William	Rowley	54	10- 8-17
Barrie, John	Drumheller	8	26- 7-31
Barrowman, Alexander	Ardley	182	14-11-24
*Bastian, J.	Taber	21	7- 5-04
Bastian, T. W.	Bankhead	27	8- 4-05
Baybutt, Thomas	Hillcrest	168	17- 8-23
Bell, William	Canmore	7	16- 7-49
Berford, Edward	Commerce	27	12- 8-16
Bianchini, Meno J.	Hillcrest	29	18- 7-47
Bilson, George H.	Beverly	2	27- 8-14
Birse, Alexander	Coalhurst	185	20- 7-25
Blair, John	Edmonton	72	11- 7-18
Blake, Henry	Bellevue	128	31- 7-13
Blake, Raymond	Bellevue	28	12- 8-42
Blas, Emile	Bellevue	169	17- 8-23
Blasetti, Angelo	Nordegg	17	19- 7-46
Boucher, Charles T.	Wayne	175	16- 7-24
Boughton, C. A.	Rosedale	10	25- 7-32
Bovio, M.	Bellevue	61	5- 7-18
Bowie, J.	Frank	4	3- 1-07
Bradley, Thomas	Bellevue	166	17- 8-23
Bradshaw, Richard	East Coulee	8	12- 7-41
Brady, John	Edmonton	141	26- 7-20
Brearley, Garnett	Coalhurst	78	23- 7-18
Bridge, Edward	Bellevue	99	5-11-12
Briggs, William A.	Drumheller	154	10-10-21
Brisco, Daniel	Hillcrest	19	21- 8-15
Broekhouse, I. B.	Milk River	74	20-12-11
Brooks, Burton T.	Drumheller	129	26- 7-20
Brown, Alan J.	Pocahontas	105	7-11-12
Brown, John	Canmore	13	18- 7-46
Brown, John D. B.	Mountain Park	55	4-11-36
Brown, J. F.	Edmonton	84	28- 6-19
Brown, Richard G.	Cadomin	192	30- 7-26
Brown, Thomas	Edmonton	55	17-11-17
Brown, William	Commerce	126	31- 7-13
*Brownrigg, John H.	Bankhead	21	30- 8-15
Burrell, Archibald K.	Drumheller	37	26- 7-34
Burton, James	Luscar	13	25- 7-32
Burton, John T.	Edmonton	212	23- 7-29
Burton, William H.	Entwistle	194	6- 8-26
Camarta, John	Cardiff	50	20- 7-44
Campbell, James	Calgary	94	20-12-40
Campbell, K. S.	Blairmore	132	31- 7-13
Campbell, Thomas	Drumheller	174	16- 7-24
Carmichael, Malcolm	Canmore	65	21- 7-38
*Carr, Roy	Cadomin	55	28-11-44
Carr, Thomas	Pocahontas	117	1-10-19
Carruthers, Edward M.	Blairmore	14	19- 7-50
Carson, James	Edmonton (duplicate)	16	25- 9-41
Cartwright, Charles E.	Lundbreck	85	2- 7-19
Castella, Jens	Standard	35	23- 7-34
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Chavignaud, Louis G.	Luscar	195	17- 8-26
Chestnut, C.	Blairmore (duplicate)	30	18- 4-05
*Clark, J. C.	Blairmore	49	22-12-09
Clark, Robert	Hardieville	43	7- 7-17
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Clay, E.	Oxville	28	7- 1-09
Clemenson, John	Bankhead	58	17-12-10
*Clyne, James	Canmore	53	22- 4-10
Clyne, James M.	Edmonton	42	18- 7-35
Cole, J. J.	Bankhead	126	26- 7-20
Comin, Silvio	Bellevue	6	16- 7-49
Congdon, Milton H.	Blairmore	158	1- 8-22
Conlin, John	Drumheller	33	22- 8-16
Cooke, Charles R.	Willow Creek	30	22- 4-43
Cooke, Joseph	Burmis	66	20- 2-11
*Corkill, T.	Michel, B.C.	13	
Coulter, Thomas	Calgary	27	14- 7-52
Coupland, Edward	Bellevue	8	18- 9-14
Coupland, George	Lundbreck	77	21-12-11

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Courterelle, Allan F.	Drumheller	11	20- 8-45
Coutes, George	Lethbridge	20	26- 8-15
Cox, John C.	Coleman	42	7- 7-17
Crabb, Daniel J.	Lethbridge	21	17- 7-42
*Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Cranston, Michael	Pocahontas	119	29- 7-13
Crawford, Alexander	Beaver Mines	125	31- 7-13
Crawford, Andrew B.	Canmore	25	14- 7-52
Crawford, Charles	Edmonton	48	13- 7-48
Crawford, Hugh	Lethbridge	85	12- 8-39
Crawford, James	Spruce Grove	9	16- 7-49
Crawford, John	Lovett	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
*Crowder, Harry	Coleman	69	18-12-11
*Crowder, James	Coleman	10	26-12-07
Currie, Campbell	Drumheller	13	19- 7-50
Curry, John	Hillcrest	86	12- 8-39
D'Altroy, A. C.	Milk River	145	1- 8-21
Dalziel, Robert	Clover Bar	122	31- 7-13
Davey, George	Rosedale	209	29- 7-28
Davey, William H.	Michel, B.C.	4	16- 7-49
Davidson, Albert M.	Brule	202	20-12-27
*Davidson, David	Blairmore	94	1-11-12
Davidson, John M.	Cloyer Bar	187	1- 8-25
Davies, D.	Coleman	31	18- 4-05
Davies, John	Coleman	11	26-12-07
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Davies, S.	Coal Creek, B.C.	18	10- 1-08
Davies, Thomas O.	Pincher Creek	104	7-11-12
*Davies, T.	Frank	54	22- 4-10
Davis, A.	Lethbridge	4	19-11-98
Davis, John	Lethbridge	31	11- 1-09
Deere, G. E.	Foothills	214	23- 7-29
Dennis, F. W.	Lethbridge	3	27- 8-14
Devernichuk, Mike	Lethbridge	16	19- 7-50
Dewar, Alexander	Coleman	16	16- 8-15
Dieter, W. J.	Sheerness	167	17- 8-23
*Digman, John H.	Coalhurst	134	31- 7-13
Dixon, John O.	Longview	220	10- 9-30
Dixon, S.	Lille	24	8- 2-08
Dobson, Roy C.	Lethbridge	27	4- 8-42
Dolanz, Iggie	Heisler	46	18- 8-44
Donaldson, Adam G.	Lethbridge	40	13- 8-34
Donaldson, C. S.	Lethbridge	35	25- 8-16
Donaldson, Matthew W.	Shaughnessy	33	18- 7-47
Douglas, Horace L.	Cadomin	12	19- 7-50
Douglas, Peter S. Jr.	Cadomin	93	22- 4-40
Dropko, William	Drumheller	48	18- 8-44
Duggan, R. G.	Taber	19	26- 4-04
Duncan, David R.	Nordegg	18	19- 7-46
Duncan, N. S.	Wayne	100	8- 7-19
Dunn, J. P.	Stratheona	9	26-12-07
Dunn, Robert	Willow Creek	6	12- 8-40
Dutton, Joseph A.	Edmonton	198	1- 8-27
*Eccleston, W.	Michel, B.C.	16	10- 1-08
Edwards, John	Cadomin	7	26- 7-31
Edwards, Mark	East Coulee	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Elkes, Frederick W.	Drumheller	33	23- 7-34
Ellison, Frederick	Drumheller	36	18- 7-47
Embree, Merton B.	Evansburg	98	3- 7-19
Emerson, C.	Bellevue	3	15-11-98
Emmerson, Charles A.	Bellevue	35	18- 7-47
Erikson, Gustaf W.	Blairmore	81	25- 7-39
Esteban, Melchor	Calgary	59	23- 8-37
Evans, Howell	Luscar (duplicate)	77	23- 3-39
Evans, Thomas R.	Coleman	137	31- 7-13
Ewing, John J.	Rosedale	24	14- 7-52
Farmer, James	Drumheller	31	17- 7-47
Fawcett, Elmer E.	Cardiff	51	7- 8-36
*Ferguson, C. J.	Mountain Park	38	30- 8-16
Finlay, Samuel	Clover Bar	25	12- 8-16
Fisher, John M.	Shaughnessy	30	18- 7-47
Flint, W. G.	Canmore	16	.....
Ford, Allen	Michel, B.C.	146	1- 8-21
Fortner, Edward	Saunders	57	3- 7-18
Foster, William	Pocahontas	14	16- 8-15
Foster, W. R.	Michel, B.C.	51	24- 1-10
Fox, Alfred A.	Canmore	63	12-11-37
Fox, A.	Taber	42	29-11-09
Fox, Benjamin	Carbon	49	22- 7-44
France, Thomas	Nordegg	67	9- 7-18
Francis, J.	Taber	29	8- 1-09
Fraser, Alex	Carmanay	221	10- 9-30
*Fraser, G. L.	Coleman	25	23-12-04

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Fraser, James	Rosedale	133	26- 7-20
Fraser, William B.	Coleman	31	14- 7-43
Fridel, Stephen	Edmonton	69	30- 7-38
Fry, George H.	Hillcrest	3	16- 7-49
Fulton, James K.	Coleman	133	31- 7-13
Fyfe, Walter H.	Wayne	142	26- 7-20
Fyvie, J.	Drumheller	109	16- 7-19
Gallagher, John	Rosedale	43	14- 7-44
Galvon, Joseph J.	Blairmore	21	16- 7-51
Garbett, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
*Gate, Harry	Coleman	124	26- 7-20
Gibson, George	Blairmore	54	13- 7-48
Gidman, Joseph H.	Taber	165	29-12-22
Giffen, H. R.	Coalfields	14	1903
Gilliland, William	Strathcona	61	17-12-10
Gilmour, John	Drumheller	222	9- 2-31
Givens, John	Pocahontas	99	8- 7-19
Gladwin, Lewis C.	Saunders	22	18- 7-42
Goodwin, Albert E.	Bellevue	72	26- 8-38
Goodwin, George W.	Bellevue	2	26- 7-31
Goodwin, William	Bellevue	9	26- 7-31
*Gordon, Thomas	Drumheller	184	27- 5-25
Gotheridge, W. V.	Round Hill	43	24- 7-35
Graham, John	Coaldale	157	1- 8-22
Grant, Alexander	Hillcrest	24	22- 7-42
Green, R.	Blairmore	17	26- 4-04
Greenhalgh, R. M.	Coleman	11	25- 7-32
Griffiths, Edward	Foot hills	1	3- 8-40
Hall, James	Coal Creek, B.C.	190	26- 7-27
Hall, Oliver	Bellevue	26	23-12-04
Halliday, George W.	Delia	31	22- 8-16
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Bellevue (duplicate)	1	1- 4-14
Hamilton, John	Delia	18	10- 8-32
Hamilton, Joseph J.	Lethbridge	164	9- 9-22
Hamilton, Thomas M.	Blairmore	34	23- 7-34
Hargreaves, G.	Lethbridge	70	9- 7-18
Harpham, H. A.	Clover Bar	21	9- 9-46
Harries, Henry C.	Coleman	9	18- 9-14
Harries, John	Wayne	213	23- 7-29
Hartley, William	Bankhead	114	25-11-12
Harvie, Robert	Lethbridge	1	30- 5-06
Hastings, Andrew P.	Bankhead	62	5- 7-18
Heap, Robert	Coalhurst	137	26- 7-20
Heathcote, Joseph	Edmonton	10	18- 9-14
Hedges, Richard	Beverly	111	18- 7-19
Heeley, William G.	Bickerdike	80	22-12-11
Heidel, Herbert G.	Priddis	26	1- 8-42
Henderson, A. J.	Luscar	7	20- 7-45
Henry, William B.	Newcastle	76	9-11-38
Herman, J. R.	Mountain Park	19	20- 7-46
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hibbert, William J.	Coleman	191	26- 7-27
Higney, John	Coalhurst	130	26- 7-20
Hill, Ernest	Coleman	57	16- 8-37
Hill, James	Lethbridge	84	13- 1-12
Hilliary, Joseph	Bellevue	49	7- 8-36
Holliday, Thomas	Drumheller	71	17- 8-38
Holmes, Robert	Coleman	144	6- 1-21
*Hooks, Albert	Drumheller	38	26- 7-34
Hooyberg, Adrian	Blairmore	2	16- 7-49
Horkulak, A. H.	Edmonton	39	14- 7-44
Horne, Robert	Coleman	12	26-12-07
Horswell, John	Cardiff	34	1- 2-09
Howells, Nathaniel	Michel, B.C.	55	25- 5-10
Huck, Louis T.	Blairmore	20	29- 7-46
Hughes, Daniel J.	Diamond City	110	13-11-12
Hughes, John C.	New Mexico	156	15-12-21
Hughes, William R.	Calgary	13	6- 8-15
Hulbert, Havelock A.	Coleman	31	23- 7-34
*Hulme, Charles	Rocky Mountain House	63	6- 7-18
*Hunter, Alexander B.	Coleman	7	18- 9-14
Hunter, Charles	Beverly	4	18- 9-14
Hunter, Henry	Edmonton	102	7-11-12
Hutchinson, A. M.	Coleman	6	3- 1-07
Hutchinson, P.	Bankhead	102	10- 7-19
Hutton, David T.	Bellevue	44	10- 7-17
Hutton, John	Bellevue	93	1-11-12
Ironmonger, John	Hillcrest	60	5- 7-18
Ivanchuk, Michael P.	Edmonton	22	16- 7-51
Jackson, James	Bellevue	56	3- 7-18
*James, William	Pocahontas	5	18- 9-14
James, William	Mercoal	10	16- 7-49

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Joberg, A. F.	Delia	68	9- 7-18
*Johnson, Moses	Taber	46	3-12-09
Johnstone, Alexander	Edmonton	7	11- 7-41
*Jones, C. E. R.	Cardiff	83	12-11-18
Jones, Daniel	Camrose	178	24- 7-24
Jones, David	Strathcona	48	15-12-09
Jones, D.	Coalhurst	116	5- 9-19
Jones, Elias	Coleman	16	25- 7-32
*Jones, Iltyd	Edmonton	197	1- 8-27
Jones, John C.	Saunders	35	20- 7-43
Jones, Peter	Lethbridge	92	1-11-12
*Jones, Samuel A.	Lethbridge	18	26- 4-04
Jones, William	Rosedale	10	30- 7-45
*Jordan, William	Taber	112	20-11-12
Kaye, Hershel	Pocahontas	129	31- 7-13
Keith, John D.	Coalhurst	107	11-11-12
*Kellock, George	Coleman	39	27-11-09
*Kellock, James	Coleman	82	30-12-11
Kenakin, Peter	Rosedale	45	13- 7-48
Kennedy, Joseph	Willow Creek	47	31- 7-36
Kennedy, William	Coleman	4	17- 7-45
Kerr, John	Coalfields	33	6- 7-05
Kerr, W. R.	Nordeg	115	2- 9-19
Kozemeniuk, Steve	Edmonton	28	11- 7-53
Kubin, John, J.	Coleman	32	14- 7-43
Lamond, David	Evansburg	36	20- 7-43
Larrrair, Charles F.	Drumheller	74	12- 7-18
Lavis, George	Drumheller	218	10- 9-30
*Leblanc, Emile	Taber	127	31- 7-13
*Lee, Robert J.	Grassy Lake	56	17-12-10
Leitch, Andrew S.	Edmonton	29	11- 7-53
Letcher, William M.	Bankhead	96	1-11-12
Lindoe, Luke	Coleman	170	1- 9-23
Lister, Alexander B.	Edmonton	49	13- 7-48
Lister, Arthur L.	Cadomin	14	25- 7-41
Littler, James	Michel, B.C.	200	12- 8-27
Littler, Robert	Bankhead	6	18- 9-14
*Livingstone, J. C.	Lethbridge	5	19-11-98
*Livingstone, Robert	Lethbridge	6	5- 6-99
Lloyd, James H.	Blairmore	12	25- 7-41
Lonsbury, William P.	Coleman	15	18- 7-46
Looten, Henry	Newcastle	42	14- 7-44
Louhela, Sulo	Canmore	1	16- 7-49
Lowrie, Ralph	Frank	34	6- 7-05
Luck, George	Bellevue	70	19-12-11
Luini, Louis	Hillcrest	51	13- 7-48
Lundy, James	Drumheller	53	17- 7-17
Mackie, John	Bankhead	136	26- 7-20
Makin, J. W.	Hillcrest	103	15- 7-19
March, John	Edmonton	22	2- 8-46
Marconi, Gordon V.	Coleman	27	18- 7-47
Marconi, John T.	Coleman	14	18- 7-46
Marsh, E.	Taber	113	25- 8-19
Marsh, John H.	Taber	153	1- 8-21
Marsh, Walter	Drumheller	20	21- 9-32
*Martin, Henry Sr.	Saunders	203	29- 2-28
*Martin, R.	Taber	114	25- 8-19
Mason, Samuel	Blairmore	130	31- 7-13
Massey, Harry	Corbin, B.C.	116	25-11-12
Mather, John	Mountain Park	23	19- 9-15
Mather, John H.	Namoo	38	9- 9-43
*Mather, Richard	Edmonton	29	10- 8-42
Mather, Stanley	East Coulee	8	23- 7-45
*Mather, Thomas	Bickerdike	106	11-11-12
Mattson, Allie E.	Bellevue	11	16- 7-49
May, John	Edmonton	26	29- 7-33
Mayoh, Daniel	East Coulee	48	7- 8-36
Melling, Joseph	Lethbridge	82	25- 7-39
Melling, Peter	Coalhurst	28	12- 8-16
Melson, Philip	East Coulee	45	15- 7-44
Menzies, William	Drumheller	40	14- 7-44
Meyers, August	Drumheller	172	18-12-23
Miard, Harry E.	Coal Creek, B.C.	64	16- 1-11
Millar, David	Mercoal	204	19- 7-28
Miller, Henry	Taber	75	13-10-38
Miller, John K.	Drumheller (duplicate)	210	24-11-28
Miller, John R.	Aerial	131	26- 7-20
Miller, Walter	Bellevue	26	12- 8-16
Mills, Basil	Shaughnessy	94	12- 8-39
Mitchell, Robert A.	Luscar	28	18- 7-47
Mitchell, Thomas	Luscar	43	13- 7-48
Molnar, Vendel S.	Hillcrest	53	13- 7-48
Moore, Thomas E.	Eyremore	47	11-12-09
Moran, James	Edmonton	46	28- 7-36
*Morgan, Daniel	Edmonton	17	10- 1-08
Morgan, Dewi R.	Bellevue	40	11- 5-48

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Morgan, Evan H.	Coleman	215	23- 7-29
Morgan, Owen	Blairmore	121	29- 7-13
Morgan, Thomas E.	Hillcrest	27	22- 8-33
* Morris, John	Lundbreck	8	3- 1-07
Morris, John D.	Hillcrest	17	19- 7-50
Morrison, Neil A. P.	East Coulee	37	20- 7-43
Mossey, Robert	Frank	173	16- 7-24
Mossey, Thomas	Lethbridge	95	3- 7-19
Mrokwa, Victor Jr.	Canmore	2	3- 8-40
Muir, Alexander	Alexo	67	27- 8-38
Muir, David	Pincher Creek	108	11-11-12
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Clover Bar	91	24- 8-12
Murray, J.	Coalhurst	90	3- 7-19
Musgrove, Harry B.	Canmore	60	23- 8-37
* Musgrove, John	Canmore (duplicate)	9	25- 4-01
Musgrove, William	Canmore (duplicate)	32	6- 7-05
MacAskill, Donald	Drumheller	77	16- 7-18
MacDonald, James A.	Bellevue	79	21-12-11
MacDonald, J. H.	Edmonton	48	10- 7-17
MacDonald, L. M.	Bellevue	217	10- 9-30
MacDonald, William	Drumheller	155	10-10-21
MacKay, Angus	St. Albert	81	26-12-11
McAndrew, J. M.	Calgary	64	19- 7-38
McCullough, Alex	Coleman	143	10- 8-20
McCutcheon, J. A.	Midlandvale	58	19- 8-37
McDonald, Clyde P.	Bellevue	1	26- 7-31
McDonald, Duncan	Canmore	60	17-12-10
* McDonald, Hector S.	Bellevue	17	16- 8-15
McDonald, J. O. C.	Coleman	15	16- 8-15
McDonald, Kenneth L.	Bellevue	23	27- 9-46
* McDonald, Noble M.	Bellevue	18	16- 8-15
McDonald, Thomas	Rosedale	41	14- 7-44
* McDonald, William I.	Willow Creek	9	12- 7-41
McFegan, William	Hillcrest	34	22- 8-16
McGaw, Albert M. S.	Carmanagay	171	15- 9-23
McGowan, John M.	Newcastle	36	26- 7-34
McGregor, Alex	Frank	1	20-12-05
McGregor, Thomas B.	Lethbridge	19	10- 8-32
McIntyre, Arnold J.	Mercoal	47	13- 7-48
McIntyre, John J.	Lovett (duplicate)	41	9-12-16
* McKay, Donald	Bankhead	3	30- 5-06
McKean, John W.	Lethbridge	24	23-12-04
* McKelvie, James	Hosmer, B.C.	43	29-11-09
McKenna, Peter	Cadomin	161	1- 8-22
McKinnon, H. G.	Canmore	76	13- 7-18
McKinnon, John L.	Coleman	80	26- 7-18
McLafferty, D.	Hillcrest	53	18- 8-44
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McLellan, John A.	Wabamun	24	2-11-15
McLenhan, John A.	Strathcona	33	1- 2-09
* McLeod, Alexander	Drumheller	149	1- 8-21
McMillan, Donald	Pincher Creek	71	20-12-11
McMullen, Arthur	Nordegg	66	21- 7-38
McQueen, Alexander	Mercoal	2	16- 7-45
McQueen, Andrew	Nordegg	71	9- 7-18
* McVicar, Samuel	Frank	23	23-12-04
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Pocahontas	46	10- 7-17
* Nicol, James	Frank	36	10- 2-09
* Novak, Mike	Milk River	32	23- 7-34
* Nugent, Bernard	Taber	73	11- 7-18
Oakes, Robert	Blairmore	17	25- 7-32
Oliphant, John T.	Medicine Hat	153	1- 8-21
Oliphant, Joseph H.	Bellevue	59	17-12-10
Ostheidt, Gus	Bankhead	1	14-11-98
Ostler, James	Taber	160	1- 8-22
Ottewell, Cedric P.	Clover Bar	193	6- 8-26
Ottewell, William J.	Clover Bar	176	16- 7-24
Park, Angus	Edmonton	15	28- 7-41
Park, Stewart G.	Lethbridge	57	17-12-10
Park, William	Bellevue	65	6- 7-18
Parker, Jack	Cardiff	52	6- 8-36
Parker, Levi	Bellevue	68	28- 4-11
Parry, Thomas	Coleman	109	12-11-12
Parsons, T. Lloyd	Edmonton	26	21- 3-08
* Pavier, Evan L.	Coleman	37	30- 8-16
Peacock, Charles	Lethbridge	138	26- 7-20
Pearson, W. G.	Frank	15	26- 4-04
Pembleton, George W.	Evansburg	97	3- 7-19
Penman, John S.	Rosenroll	120	29- 7-13
Peta, Frank	Lethbridge	8	16- 7-49
Peta, Julius	Hardieville	90	23-10-39
Pettigrew, Robert	Corbin, B.C.	30	27- 4-34
* Phillips, Charles	Frank	20	26- 4-04
Pickles, William	Edmonton	35	1- 2-09

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Picton, Daniel	Passburg	118	10- 2-13
Potter, I. N.	Nacmine	44	15- 8-35
Powell, Albert E.	Strathcona	85	16- 1-12
Prendergast, Denis	Brule	188	26- 7-26
Prentice, John	Lille	45	2-12-09
Price, Stanley R.	Blairmore	79	25- 7-39
*Puckett, Owen L.	Drumheller	50	17- 7-17
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quigley, Daniel H.	Lethbridge	73	20-12-11
Quin, James	East Coulee	23	29- 7-33
*Radford, James	Bellevue	140	26- 7-20
Radford, James T.	Bellevue	52	13- 7-48
Raisbeck, R. M.	East Coulee	47	18- 7-44
Ramsay, MacDonald	East Coulee	18	16- 7-51
Ramsay, Peter M.	Lethbridge	86	24- 2-12
Rankin, George	Michel, B.C.	41	29-11-09
Rappel, Thomas	Canmore	206	19- 7-28
Rawlinson, R.	Edmonton	32	22- 8-16
Rear, Albert	Coleman	56	15-12-36
Redpath, James	Wayne	147	1- 8-21
Reed, Edward	Drumheller	135	26- 7-20
Reed, John C.	Edmonton	3	16- 7-45
Rees, Daniel	Blairmore	189	26- 7-26
Rice, Awrey	Frank	2	20-12-05
Richards, Evan	Evansburg	59	3- 7-18
Richards, Samuel	Corbin, B.C.	98	5-11-12
Riordan, Leo	Canmore	19	17- 7-42
Roberts, D. E.	Coleman	14	10- 1-08
Roberts, D. O.	Wayne	86	2- 7-19
*Roberts, E.	Bellevue	87	2- 3-12
*Roberts, E. I.	Strathcona	52	12- 3-10
Roberts, G.	Taber	79	23- 7-18
Roberts, John	Bellevue	12	26-10-14
Robertson, Duncan	Drumheller	29	10- 8-34
Robinson, William	Drumheller	30	22- 8-16
Rochester, Jasper J.	Hinton	78	20- 7-39
Rolfe, E.	Hillcrest	211	4- 2-29
Ruffell, Alfred	Lethbridge	180	11- 8-24
Russell, John	Wayne	29	12- 8-16
Samis, Earl L.	Namoo	62	30- 9-37
Sandino, J. A.	Hillcrest	91	3- 7-19
Sarsfield, William	East Coulee	83	28- 7-39
Saunt, James	Edmonton	123	26- 7-20
Scarpino, Eugene M.	Rosedale	5	4- 9-40
Scarpino, F.	Fernie, B.C.	121	26- 7-20
Schmidt, Otto P.	Camrose	115	25-11-12
Schymizek, John	Wabamun	38	18- 7-47
Scott, Alexander	Pocahontas	103	7-11-12
Scott, Andrew N.	Edmonton	19	10- 1-08
*Scott, Frederick G.	Brule	128	26- 7-20
*Scott, Hugh	Lethbridge	7	9- 3-00
Senycz, John J.	Bellevue	37	18- 7-47
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Shanks, David	Coal Creek, B.C.	117	7-12-12
Shaw, Joseph H.	Kimberley, B.C.	196	22- 9-26
Shaw, Robert	Coleman	70	2- 8-38
Shaw, Thomas J.	Canmore	75	21-12-11
*Shaw, William	Canmore	21	18- 1-08
Shaw, William G.	Nordegg	177	24- 7-24
Shearer, John C.	Hillcrest	33	20- 7-43
Shephard, William L.	East Coulee	34	18- 7-47
*Shone, Samuel	Coleman	23	23- 1-08
Sihvon, William	Bellevue	40	29-11-09
Simmons, Harry	Mountain Park	89	14- 9-39
Simpson, William G.	Drumheller	45	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sinoski, Steve	Edmonton	80	25- 7-39
Sloan, Thomas W.	Burmis	67	2- 3-11
Smillie, John	Footfalls	20	16- 7-51
Smillie, Walter	Drinnan	44	14- 7-44
Smith, Peter	Coleman	39	13- 8-34
Smith, Terence	Beverly	205	19- 7-28
Smith, Thomas E.	Yetwood	39	14- 9-16
Snow, Percy E.	Morley	24	4-12-46
Sparrow, Edwin	Lundbreck	7	3- 1-07
Spensley, Thomas Jr.	Drumheller	23	14- 7-52
Steele, Francis M.	Pincher Creek	125	26- 7-20
Steele, Thomas	Coleman	12	26- 4-04
Stene, Alexander	Mountain Park	5	16- 7-49
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Stevenson, John	Lethbridge	47	10- 7-17
Stevenson, Robert	East Coulee	13	25- 7-41
Stewart, James M. Jr.	Fernie, B.C.	50	24-12-09
Stocco, Reno	Drumheller	25	18- 7-47
Strang, David	Mountain Park	15	25- 7-32
Stratton, J. M.	Taber	94	3- 7-19
*Stratton, Robert	Wabamun	39	18- 7-47

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Strecker, John	Rosedale	32	18- 7-47
Strickland, Thomas	Three Hills (duplicate)	54	16-10-36
Strickland, William	East Coulee	11	14- 7-41
Surrendi, Nick	Wayne	6	18- 7-45
Sutherland, S. R.	Bellevue	28	22- 8-33
*Swan, John	Edmonton	12	25- 7-32
Talbot, Walter	Clover Bar	207	29- 7-28
Tamborini, Bruno	Bellevue	50	13- 7-48
Tanner, Moore G.	Midlandvale	19	16- 7-51
Taylor, C. M.	Mountain Park	118	1-10-19
Taylor, George W.	Lethbridge	83	30-12-11
*Taylor, Thomas	Hillcrest	62	22-12-10
Tennant, Robert	Lethbridge	58	3- 7-18
*Teppo, Herman	Bellevue	15	10- 1-08
Thackray, Fred	Lethbridge	208	29- 7-28
*Thain, Harry S.	Lethbridge	32	12- 1-09
*Thomas, David	Bankhead	28	8- 4-05
Thomas, David R.	Edmonton	73	3- 9-38
Thomas, Isaac	Coleman (duplicate)*	120	2- 1-20
Thomas, John	Diamond City	30	8- 1-09
Thomas, John	Frank	89	25- 3-12
*Thomas, Joseph D.	Hosmer, B.C.	37	25-11-09
Thomas, William J.	Luscar	51	24- 7-44
Thomason, C.	Coleman	119	12-11-19
Thompson, Joseph	Carbon (duplicate)	91	9- 1-40
Thompson, T.	Coleman	87	2- 7-19
Thomson, Andrew R.	Drumheller	159	1- 8-22
Thomson, George G.	Lethbridge	163	9- 9-22
Thomson, James	Drinnan	6	27- 7-31
Thomson, John	Edmonton	4	26- 7-31
Tiberg, A. J.	Blairmore	34	20- 7-43
Tiberghien, A. J.	Coleman	9	24- 7-45
Tonge, Reginald	Blairmore	54	5-10-44
Tonge, Thomas	Bickerdike	90	1- 6-12
Touhey, J. B.	Drumheller	22	6- 5-33
Trevethin, Mark	Wayne	3	3- 8-40
Tully, Thomas	Fernie, B.C.	75	12- 7-18
*Turner, J. H.	Coalhurst	89	2- 7-19
Turner, Leonard	Nordegg (duplicate)	179	11- 8-24
Tyer, Edward	Shaughnessy	61	27- 8-37
Tyer, Harold	Lethbridge	87	12- 8-39
*Unsworth, Robert	Garden Plain	36	30- 8-16
Udley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wayne	181	11- 8-24
Vivyrka, John	Mercoal	21	28- 9-32
Waite, Archibald	Taber	10	26- 4-04
Wakarak, George	Newcastle	26	18- 7-47
Walker, Ian M.	Blairmore	15	19- 7-50
Watkins, J. M.	Taber	106	15- 7-19
Watkins, W. E.	Lille	20	18- 1-08
*Watson, William	Coleman	13	26-12-07
Watters, A. G.	Pocahontas	95	1-11-12
Watters, John	Bankhead	22	18- 1-08
*Weatherby, Cory	Hillcrest	11	6-11-02
Webster, James S.	Shaughnessy	88	17- 8-39
*Welch, James D.	Taber	113	20-11-12
Welsh, Edwin L.	Lethbridge	10	12- 7-41
Westcott, Henry M.	Wayne	261	10- 9-27
Wheatley, Fred M.	Banff	3	26- 7-31
White, James B.	Nordegg	12	25- 8-45
Whitehead, J. W.	Blairmore	216	5- 9-29
Whitelaw, Thomas	Coleman	25	24- 2-08
Willets, Frederick	Hillcrest	148	1- 8-21
Williams, Albert	Beverly	134	26- 7-20
Williams, Arthur E.	Saunders	162	1- 8-22
Williams, John J.	Lovett	11	18- 9-14
Williams, Thomas H.	Canmore	8	20- 7-00
Williams, W. E.	Beverly	96	3- 7-19
Williamson, David S.	Camrose	199	5- 8-27
Wilson, Robinson	Drumheller	151	1- 8-21
Wilson, William G.	Coleman	3	20-12-05
Wiltz, Donald H.	Edmonton	5	26- 7-31
Winter, Archibald	Strathcona	63	16- 1-11
Womersley, Alfred	Blairmore	25	29- 7-33
Woods, Robert W.	Coleman	26	14- 7-52
Worthington, Thomas	Lethbridge	69	9- 7-18
Worthington, W. T.	Edmonton	92	3- 7-19
Worthington, Willard T. Jr.	Edmonton	42	13- 7-48
*Wright, J. S.	Canmore	38	27-11-09
Yard, George C.	Nordegg	150	1- 8-21
Yard, Lloyd G.	Trochu	5	17- 7-45
Young, Charles	Bellevue	23	22- 7-42
Young, D. B.	Coleman	186	24- 7-25
Young, John	Drumheller	52	26- 7-44
Zemek, Joseph	Frank	46	13- 7-48

* Deceased

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Adams, Thomas H.	Coalhurst	16	10- 3-14
Adamson, Alexander	Perbeck	231	22- 6-36
Adamson, Robert	Huxley	157	12- 6-34
Adlam, William	Hillcrest	108	2- 6-10
Ainsley, George H.	Morley	126	13- 7-48
Ainsworth, John H.	Halkirk	29	25- 7-41
Aitchison, Peter	Lethbridge	230	22- 6-36
Aitken, James R. S.	Nordegg	98	9- 8-44
Aitken, William	Mountain Park	668	24- 3-28
Akitt, William	Carmangay	40	11- 1-46
*Alderson, R. D.	Coleman	17	3- 1-07
Alexander, William	Bellevue	8	26- 7-31
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Allan, William H.	Newcastle (duplicate)	409	14- 9-40
Allanby, Charles H.	Foot hills	679	19- 7-28
Allen, Edgar	Wayne	436	29- 8-21
Allen, Thomas G.	Wayne	765	4- 6-30
Allen, Walter F.	Wayne	315	4- 7-38
Allen, William C.	Coleman	205	10- 8-12
Allman, William	Coleman	79	30- 1-47
Aloisio, Edward	Robb	33	16- 7-49
Ambrossi, Antonio	Nordegg	478	1- 8-22
Anderson, Andrew	Bellevue	39	17- 6-14
Anderson, Arne	Elhora	313	4- 7-38
Anderson, George E.	East Coulee	31	16- 7-49
Anderson, Gunner W.	Evansburg	650	1- 8-27
Anderson, Hugh W.	Edmonton	150	7- 7-17
*Anderson, J.	Frank	13	.....
Anderson, John G.	Wayne	71	16- 7-51
*Anderson, Peter B.	Mountain Park	264	26- 6-19
Anderson, Robert	Drumheller (duplicate)	37	20- 4-42
Anderson, William	Coleman	114	13- 7-48
Andrew, Alfred	Edmonton	355	8- 6-39
Annon, Joseph L.	Bow Island (duplicate)	69	3-11-43
Antonenko, Andrew R.	Mountain Park	47	18- 7-46
Antrobus, Fred	Coleman (duplicate)	71	6- 8-46
Appleby, William S.	Canmore	117	6- 7-33
Appleton, John T.	Mountain Park	76	19- 4-15
Arbuckle, John	Mountain Park	263	26- 6-19
Archer, Roland	Hillcrest	132	22-12-10
Archibald, David	Bickerdike	222	25-11-12
Armstrong, Alex	Drumheller	697	16- 8-28
*Armstrong, John	Nordegg	171	17- 7-17
Armstrong, John	Castor	719	7- 6-29
Armstrong, Peter M.	Nordegg	224	8- 6-18
Aschacker, Martin	Blairmore	1	3- 8-40
Ashman, Alfred W.	Rosedale	151	7- 7-17
Ashmore, James Jr.	Champion	108	15- 6-33
Ashton, William	Mountain Park	90	27- 8-15
Ashurst, W.	Coleman	82	26- 8-09
Aspinall, Francis	Bellevue	32	30- 5-07
*Astley, David	Wood River	483	1- 8-22
Atherton, Edward	Bickerdike	40	14- 7-14
Atkinson, Charles W.	Drumheller	249	3- 6-37
Auguston, Ernest G.	Grande Prairie	164	19- 6-34
Autio, Victor	Canmore	127	13- 7-48
Babino, Arthur	Bankhead	312	26- 7-20
Bachynski, John	Newcastle	348	8- 6-39
Badham, Thomas	Coleman	153	7- 7-17
Baich, Victor	Luscar	89	18- 7-44
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Bainbridge, G. E.	Nordegg	343	26- 7-20
Bainbridge, James	Pocahontas	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Baird, William	Drumheller	218	5- 6-18
Baker, R. D.	Luscar	41	27- 7-31
Baker, Robert W.	Coleman	456	31- 7-22
Baker, Stanley J.	Mercoal	43	18- 7-46
Balkwill, Frederick W.	Alexo	631	30- 7-26
Ball, Alfred	Natal, B.C.	292	20-11-19
Balog, Milan	Frank	118	12- 7-54
Bambrough, George	Hillcrest	345	26- 7-20
Bansemmer, R.	Bankhead	14	3- 1-07
Barber, J.	Frank	7	3- 1-07
Barber, James S.	Hillcrest	144	3- 7-11
Barber, William J.	Drumheller	781	10- 6-30
Barclay, Daniel	Dinant	89	23- 9-32
Barclay, Peter	Foot hills	332	7- 9-38
Barclay, R. W.	Drumheller	313	26- 7-20
Barclay, William	Bankhead	22	13- 3-14
Barclay, W. G.	Pocahontas	30	23- 4-14
Barich, John L.	Drumheller	32	16- 7-49
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Barnes, Edwin	Mountain Park	137	25- 9-16
Barnes, Ernest	Coleman	453	31- 7-22
Barnes, George S.	Mountain Park	290	8- 6-38
*Barnes, John W.	Coleman	512	30- 6-23
Barnes, Thomas	Blairmore	387	1- 8-21
Baroni, Alfred	Edmonton	166	27- 6-34
Barons, James	Drumheller	48	3- 8-31
Barrass, Thomas	Wayne	40	27- 7-31
Barrie, John	Nacmine	90	6- 3-52
Barrie, James	Commerce	401	1- 8-21
Barringham, F. J.	Rosedale	362	26- 7-20
Barrowman, Alexander	Nordegg	548	15- 9-23
Bartlett, Wallace	Elcan	173	17- 7-17
Barton, John S.	Nordegg	68	25-10-43
Bastian, T. W.	Bankhead	30	5-12-04
Batchelor, Frank	Lethbridge	275	10- 9-37
Bateman, Fred	Sheerness	123	14- 7-16
Bateman, James	Lethbridge	279	26- 6-19
Battce, Noyes S.	Drumheller	381	1- 8-21
Batty, George	Nordegg	3	3- 8-40
Baxter, Robert	Lochearn	374	17- 6-21
Beal, George F.	Bellevue	7	20-12-13
*Bealle, Fred A.	Brule	285	26- 6-19
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Belik, Ernest	Coleman	108	11- 7-53
Bell, William	Coleman	95	12-10-15
Bell, William	Canmore	798	8- 8-30
Bennett, Isaac	Armada	179	17- 7-17
Berendt, Carl H.	Luscar	75	16- 7-51
Berford, Edward	Elcan	196	13- 7-12
Berg, Soren F.	Prince George	88	28- 2-52
Berlando, Silvio	Rosedale	4	16- 7-45
Berze, John	Hillcrest	26	16- 7-49
Besso, A.	Canmore	80	26- 7-09
Bevan, Walter	Canmore	721	7- 6-29
Beveridge, Andrew	Commerce	156	7- 7-17
Beveridge, Andrew	Coleman	314	26- 7-20
Beveridge, James	Nordegg	65	30- 7-43
Beveridge, John S.	Midlandvale	122	29- 7-33
Bianchini, Armand	Hillcrest	59	20- 7-43
Bianchini, Meno J.	Hillcrest	9	16- 7-45
Bignell, Emford L.	Gadsby	170	26- 7-34
Billington, Edward E.	Coleman	73	25- 2-15
Binder, Christopher	Ryley	129	13- 7-48
Bird, Richard	Nordegg	357	26- 7-20
Biro, Geza J.	Newcastle	14	16- 7-49
Biro, John	East Coulee	55	19- 7-50
Birrell, William	Robb	1	29- 1-31
Birse, Alexander	Coalhurst	268	26- 6-19
Birt, William G.	Evansburg	452	31- 7-22
Bish, Homer F.	Forestburg	23	16- 7-49
Black, Andrew Jr.	Rosedale	184	17- 1-35
Blackett, W. M.	Drumheller	131	15-10-33
Blades, James	Deburne	62	25- 6-32
Blair, John	Edmonton	183	25- 7-17
Blake, Henry	Bellevue	133	30-12-10
Blake, P.	Lundbreck	23	14- 5-07
Blake, Raymond	Bellevue	408	29- 2-40
Blake, Robert	Bellevue	391	22- 8-39
Blake, Sylvanus R.	Wayne	384	1- 8-21
Blakemore, Roydon E.	Edmonton	227	16-12-12
Bland, H. A.	Taber	296	3- 2-20
Blas, Emil	Blairmore (duplicate)	91	22-10-32
Blas, Victor	Blairmore	787	14- 6-30
Blasetti, Angelo	Nordegg	85	17- 7-44
Blum, Leo	Lymburn	336	19- 9-38
*Blusson, Joseph T. C.	Champion	253	26- 6-19
Bobrovski, Martin	Mountain Park	217	5- 6-18
Boldon, James	Bellevue	86	19- 8-15
Bond, Bertram	Coleman	106	15- 6-33
Bonetti, D.	Champion	73	25- 6-32
Bonner, Fred	Evansburg	542	1- 9-23
Booth, George	Edmonton	85	18- 8-15
Booth, Harry	Beverly	654	12- 8-27
Booth, Joseph	Drumheller	98	10- 6-33
Bordula, Andrew J.	Hanna	160	16- 6-34
Boscariol, I.	Mountain Park	521	17- 8-23
Boseley, Joseph H.	Bellevue	780	10- 6-30
Bosetti, Renato	Mercoal	3	16- 7-49
Boughton, C. A.	Rosedale	755	12-11-29
Boulton, W. E.	Bankhead	48	29- 5-08
Boutry, A.	Bellevue	557	4-12-23
Bovio, Michael	Bellevue	146	3- 7-11
Boyce, James A.	East Coulee	76	16- 7-51
Boychuk, Michael T.	Shaughnessy	324	12- 8-38
Boyd, John	Wayne	390	1- 8-21
Bradley, James	Foreman	103	10- 6-33

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Bradley, Thomas	Hillcrest	138	16- 1-11
Bradley, Walter	Cardiff	490	1- 9-22
Bradshaw, James	Scapa	690	16- 8-28
Bradshaw, Richard	East Coulee	209	26- 7-35
Bragdich, George	Thelma	207	24- 7-35
Brearley, Garnett	Lethbridge	18	16- 3-14
Brennan, John	Long Coulee	261	26- 6-19
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bridarolli, G.	Magrath	203	8- 7-35
Briers, Leonard	Red Deer	317	8- 7-38
Briggs, Alfred J.	Drumheller	254	26- 6-19
Briggs, Charles	Canmore	302	26- 7-20
Briggs, William A.	Drumheller	414	1- 8-21
Briggs, William A. Jr.	Drumheller	346	8- 6-39
Brinkman, Alfred T.	Craigmyle	16	14- 1-41
Brisco, Daniel	Hillcrest	117	9- 6-10
Broderick, Frederick	Drumheller	702	24-10-28
Broderick, Gideon	Canmore	221	10- 3-36
Brooks, Burton, T.	Drumheller	167	17- 7-17
Brooks, Claude E. E.	Drumheller	220	8- 6-18
Brooks, George W.	Beverly	499	1-11-22
*Brooks, John	Bellevue	428	1- 8-21
Brown, Alan J.	Cardiff	163	17-11-11
*Brown, Austin L.	Edmonton	510	30- 5-23
Brown, Clarence H.	Drumheller	554	15-11-23
Brown, David M.	Commerce	157	7- 7-17
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Brown, Frederick	Edmonton	58	2- 6-32
Brown, George A.	Michel, B.C.	432	29- 8-21
Brown, James W.	Coal Creek, B.C.	2	16- 7-49
Brown, John	Canmore	185	20- 2-35
Brown, J. D. B.	Mountain Park	129	26- 8-33
Brown, John F.	Pocahontas	29	21- 4-14
Brown, John R.	Cadomin	105	18- 7-47
Brown, Richard G.	Cadomin	598	20- 7-25
Brown, Richard G. F.	Cadomin	87	18- 7-47
Brown, Robert	Bellevue	112	10- 7-16
Brown, T.	Bankhead	24	14- 5-07
Brown, Thomas W.	Edmonton	377	1- 8-21
Brown, Vernon J.	Coleman	14	16- 7-45
Brown, William	Canmore	676	19- 7-28
*Brownrigg, John H.	Frank	35	26-12-07
*Brovey, A. C.	Edmonton	64	1- 2-09
Brugos, Joseph	Mountain Park	80	3- 6-46
Bryant, E. A.	Wabamun	337	1-10-38
Brzuskiewicz, Stefan	Edmonton	99	14- 7-52
Budd, Kenneth J.	New Westminster (duplicate)	86	26-11-51
Budda, Joseph J.	Bellevue	145	5- 6-34
Budesheim, August E.	Dimsdale	238	20- 8-36
Bulat, John	Edmonton	291	8- 6-38
Burcey, A.	Calgary	352	26- 7-20
Burnham, George	Fallis	560	18-12-23
Burrell, Archie K.	Drumheller	793	3- 7-30
Burrell, John	Coleman	607	25- 7-25
Burrows, C.	Frank	40	18- 1-08
Burrows, James G.	Bellevue	617	14-10-25
Burton, James	Edmonton	670	19- 7-28
Burton, John T.	Edmonton	448	21- 7-22
Burton, William H.	Entwistle	553	1-11-23
*Butts, Russell J.	Alexo	38	8- 8-45
Byers, John W.	Taber	48	25-11-14
Byron, John	Coalhurst	11	10- 3-14
Calderbank, J. S.	Scapa	155	12- 6-34
*Callander, Ira C.	Pocahontas	78	19- 8-15
Camarta, John	Bittern Lake	287	8- 6-38
Cameron, Donald	Coalspur	331	26- 7-20
Campbell, George P.	Nordegg	229	8- 6-18
Campbell, Harry B.	Forestburg	303	22- 6-38
Campbell, Henry	Bellevue	188	13- 8-17
Campbell, James	Cluny	107	15- 6-33
Campbell, John H.	Canmore	71	16- 2-15
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Campbell, Robert G.	Coleman	17	16- 7-45
Campbell, Thomas	Lovettville	247	25- 6-19
Campkin, Bruce C. Jr.	Lousana	41	14- 3-46
*Campkin, Robert	Lousana	384	20- 7-39
Candlish, W. S.	Brule	366	26- 7-20
Canet, Camille A.	Blairmore	601	25- 7-25
Cardle, James	Bellevue	481	1- 8-22
Carmichael, Malcolm	Canmore	684	1- 8-28
Carmichael, Maurice	Forestburg	94	28- 7-44
*Carr, John R.	Cadomin	62	20- 7-43
Carr, Thomas	Nanton	283	26- 6-19
Carruthers, Edward M.	Blairmore	43	19- 7-50

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Carson, George	Frank	154	8- 7-11
Carson, James	Edmonton (duplicate)	105	6- 3-45
Cartledge, George F.	Aerial	673	19- 7-28
Cartwright, Charles E.	Blairmore	198	4- 4-18
Carty, Patrick	Evansburg	595	20- 7-25
Castella, Jens	Standard	743	5- 7-29
Catchpole, C.	Three Hills	2	30- 5-06
Causey, Thomas	Taber	403	1- 8-21
Cawthorne, L.	Frank	46	18- 4-05
Celli, Jerry J.	Coleman	46	18- 7-42
Challenger, Edward J.	Magrath	86	24- 8-32
Chalmers, James	Edmonton	278	26- 6-19
Chalmers, Robert	Edmonton	454	31- 7-22
Chalmers, Robert	Edmonton	15	26-11-40
Chamberlain, William H.	Coleman	162	19- 6-34
Chambers, Ralph H.	Lovettville	246	25- 6-19
Chaplow, Joseph	Lethbridge	49	25-11-14
Chapman, Christopher	Drumheller	232	12- 6-18
Chapman, John W.	Mountain Park	245	31- 5-37
*Charlton, Samuel	Hillcrest	179	23-11-11
Chavignaud, Louis G.	Luscar	626	26- 7-26
Chemotti, Guiseppe	Lethbridge	239	25- 8-36
Cherrille, Orlando	Edmonton	371	22- 6-39
Chesney, Samuel	Cadomin	43	17- 7-42
Chestnut, C.	Blairmore (duplicate)	28	6- 7-05
China, John	Nordegg	480	1- 8-22
Chisholm, John A.	Luscar	37	22- 8-31
Chiswick, James	Gadsby	175	27- 8-34
Chiuppi, James	Drumheller	62	24- 7-46
Christie, Joseph	Bellevue	731	17- 6-29
Churchill, J.	Frank	45	18- 4-05
Clack, Robert W.	Drumheller	740	17- 6-29
Clancy, James	Craigmyle	28	3- 8-31
Clark, John	Bankhead	301	26- 7-20
*Clark, J. C.	Blairmore	33	18- 7-07
Clark, Robert	Lethbridge	212	31-10-12
Clarke, Richard	Hillcrest	500	1-11-22
Clarke, Robert G.	Drumheller	70	16- 2-15
Clelland, Thomas	Edmonton	574	24- 7-24
Clelland, William	Lethbridge	421	1- 8-21
Clemenson, John	Bankhead	105	30- 5-10
Clozza, Angelo	Newcastle	193	10- 6-35
*Clyne, James	Canmore	65	1- 2-09
Clyne, James M. Jr.	Edmonton	45	26- 8-31
Coates, Ernest	Bellevue	35	24- 7-45
Cocchioni, Augustus	Kelowna, B.C.	411	12-11-48
Cole, J. J.	Bankhead	66	1- 2-09
Coleburne, J. H.	Drumheller	710	1- 5-29
Colley, David G.	Rosedale	121	13- 7-48
Collins, Sidney G.	Edmonton	219	5- 6-18
Colonel, Daniel	Edberg	318	14- 7-38
Comin, Silvio	Bellevue	148	5- 6-34
*Congalton, Clem S.	Vancouver, B.C.	315	26- 7-20
Congdon, Milton H.	Blairmore	476	1- 8-22
Conley, Leroy L.	Saunders	260	26- 6-19
Conlin, Richard	Drumheller	656	14- 8-27
Convery, Dennis	Coleman	107	10- 7-16
Cooke, Charles R.	Willow Creek	395	10- 9-39
Cooke, J.	Bankhead	4	30- 5-06
Coombs, Walter P.	Taber	164	17-11-11
Cooper, John A.	Lethbridge	166	10- 7-17
Cordel, Emile G.	Halkirk	91	18- 7-44
Cotterill, John	Rosedale	346	26- 7-20
Coulter, Thomas	Calgary	130	13- 7-48
Coupland, Edward	Lundbreck	173	17-11-11
Coupland, George	Bellevue	148	4- 7-11
Courtorelle, Alan F.	Drumheller	171	13- 8-34
Cousens, Gilbert W.	Bellevue	199	4- 4-18
Coutts, Anthony B.	Hardieville	178	17- 7-17
Coutts, David	Hardieville	23	30- 3-14
Coutts, George	Lethbridge	210	26-10-12
Cowan, James	High River	459	31- 7-22
Cowan, Robert	Drumheller	92	22-10-32
Cowan, W.	Bankhead	4	15-11-98
Cowley, Robert	Saunders	86	17- 7-44
Cox, John	Coleman	193	13- 7-12
Coxon, John	Edmonton	89	27- 8-15
*Crabb, S. A. B.	Lethbridge	38	28- 5-14
Craig, Andrew	Coalhurst	169	26- 7-34
Craig, James M. S.	Nordegg	413	1- 8-21
Craig, Robert T. S.	Nordegg	4	3- 8-40
Cranston, Michael	Clover Bar	218	11-11-12
Crawford, Andrew B.	Mountain Park	95	18- 7-47
Crawford, Charles	Edmonton	647	1- 8-27

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Crawford, George	Bellevue (duplicate)	365	26- 7-20
Crawford, Hugh	Lethbridge	266	13- 7-37
Crawford, James	Alexo	662	10- 9-27
Crawford, John	Beaver Mines	197	13- 7-12
Crawford, John C.	Bellevue	84	17- 7-44
Crawford, John S.	Alix	333	7- 9-38
Crawford, Robert	Lethbridge	619	21-10-25
Crawford, William	Lethbridge	8	6- 3-14
Crichton, Robert	Hillcrest	516	17- 8-23
Crockett, Levi A.	Hillcrest	131	22-12-10
Crozier, John E.	Midlandvale	128	26- 8-33
Cumber, Ernest G.	Grande Prairie	36	16- 7-49
Cumberford, Granger	Drumheller	289	8- 6-38
*Cumberford, James	Drumheller	672	19- 7-28
Currie, Campbell	East Coulee	81	18- 7-47
Currie, Robert	Canmore	715	7- 6-29
Curry, John	Passburg	439	3-11-21
Curry, John	Hillcrest	368	22- 6-39
Czirjak, Andrew	Shaughnessy	52	19- 7-50
D'Altroy, Arthur C.	Commerce	6	1-12-13
Dalziel, William	Clover Bar	14	26- 7-31
Dambois, Charles E.	Bellevue	124	13- 7-48
D'Amico, George	Nordegg	486	1- 8-22
Damico, Zupito	Nordegg	8	3- 8-40
Darbyshire, Harry	Drumheller	183	18-12-34
Davey, George	Michel, B.C.	418	1- 8-21
David, Andrew	Aerial	104	14- 7-52
Davidson, Albert M.	Evansburg	517	17- 8-23
*Davidson, David	Edmonton	170	17-11-11
Davidson, Robert M.	Coleman	33	26- 7-31
Davies, E. M.	Wayne	95	25- 5-33
Davies, Ernest	Big Prairie	326	26- 8-38
Davies, G. C.	Lundbreck	114	3- 7-33
Davies, James	East Coulee	784	10- 6-30
Davies, J.	Coleman	265	26- 6-19
Davies, John C. H.	Coalmont, B.C.	492	1- 9-22
Davies, Richard	Luscar	42	26- 7-31
*Davies, T.	Frank	49	18- 4-05
Davies, T. O.	Coleman	109	2-6-10
Davies, W. E.	Hillcrest	16	26- 7-31
*Davies, W. J.	Edmonton	16	
Davis, D. B.	Midlandvale	730	10- 6-29
Davis, Fred M.	Big Valley	619	28- 9-25
Davis, William	Coalspur	192	7-11-17
Dawes, Edmund	Drumheller	222	8- 6-18
Dawson, Glen	Brule	573	24- 7-24
Dean, William	Bankhead	20	20- 3-14
DeBernardo, Frank J.	Drumheller	131	13- 7-48
DeCocco, Antonio	Coleman	119	13- 7-48
Deere, Gladstone E.	Blackstone	449	21- 7-22
Denholm, James	Mercoal	17	26- 7-31
Dennis, Frederick W.	Lethbridge	3	28-11-13
Desson, Horace E.	Rosedale	526	17- 8-23
Deugan, Frederick H.	Coleman	97	18- 7-47
Devernichuk, Mike	Lethbridge	8	16- 7-45
Devonshire, G.	Canmore	31	23- 5-07
Devoy, William	Hardieville	9	6- 3-14
Diamond Omer	Blairmore	106	18- 7-47
Dieter, Walter J.	Sheerness	397	1- 8-21
*Digman, John H.	Royal View	198	13- 7-12
Dinsdale, William	East Coulee	61	2- 6-32
Dixon, John O.	High River	698	16- 8-28
Dixon, S.	Lille	18	3- 1-07
Dixon, W. B.	High River	179	10- 9-34
Dobson, Roy C.	Lethbridge	2	3- 8-40
Dolanz, Iggy	Three Hills	361	22- 6-39
Dombroski, Theodore S.	Mercoal	85	18- 7-47
Donaldson, M. W.	Shaughnessy	69	9- 9-46
Donaldson, Thomas	Shaughnessy	64	25- 6-32
Donnachie, John	Brule	630	26- 7-26
Donovan, William J.	Mercoal	73	16- 7-51
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Dotto, August J.	Cadomin	132	13- 7-48
Douglas, D. B.	Edmonton	129	26- 7-16
Douglas, Horace L.	Cadomin	83	18- 7-47
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36
*Downs, T.	Canmore (duplicate)	6	6-10-06
Draper, Robert	Cochrane	214	1-11-12
Driega, William	Cadomin	61	20- 7-43
Driscoll, L.	Evansburg	560	24- 7-24
Dropko, William	Midlandvale	208	26- 7-35
Dryburgh, W. W.	Nordegg	356	26- 7-20
Dudley, John T.	Hillcrest	493	1- 9-22
Duggan, E. J.	Taber	41	18- 1-08

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Duggan, John	Edmonton	97	12-10-15
Duggan, R. G.	Taber	27	26- 4-04
Dunbar, Edgar J.	Canmore	575	1- 8-24
Dunbar, Robert	Hinton Trail	272	16- 8-37
Duncan, David R.	Alexo	24	15- 7-41
Duncan, Ninian S.	Cochrane	211	31-10-12
Dunlop, Hugh	Coleman	321	26- 7-20
Dunnigan, Edward	Bankhead	216	1- 6-18
Dunn, Charles F.	Drumheller	604	25- 7-25
Dunn, Robert A.	Willow Creek	322	8- 8-38
Dunn, Robert A.	Edmonton	20	16- 7-49
Dunn, Samuel	Taber	441	15-12-21
Dunn, W. P.	Evansburg	347	26- 7-20
Dupen, Albert E.	Lethbridge	616	14- 8-25
Dupen, Thomas	Edmonton	275	26- 6-19
Duquesne, George G.	Champion	306	22- 6-38
Duthie, Alexander F.	Pocahontas	184	28-11-11
Dutka, Joseph	Canmore	794	3- 7-30
Dutton, Alfred	Mountain Park	121	29- 7-33
Dutton, Joseph A.	Redcliff	623	26- 7-26
Dziedzic, Joseph C.	Blairmore	94	18- 7-47
*Eccleston, J. W.	Mountain Park	330	26- 7-26
Eccleston, Richard	Bellevue	243	26- 6-19
Eccleston, Thomas	Mountain Park	475	31- 7-22
*Eccleston, W.	Michel, B.C.	20	3- 1-07
Eckert, William	Sedalia	539	17- 8-23
Edwards, John	Cadomin	32	26- 7-31
Edwards, O. E.	Cadomin	115	3- 7-33
Elick, John C.	Hillcrest	107	11- 7-53
Elkes, F. W.	Newcastle	724	7- 6-29
Elliott, James	Drumheller	277	26-10-37
Ellison, Fred	Drumheller	75	14- 7-44
Embree, Merton, B.	Bankhead	239	31- 7-13
Emmerson, Charles A.	Bellevue	5	3- 8-40
*Eno, John W.	Drumheller	223	8- 6-18
Entwistle, Albert V.	Kipp	471	31- 7-22
Eskeland, Arthur	Champion	21	12- 7-41
Evans, Angelo P.	Blairmore	42	18- 7-46
Evans, Charles	Hillcrest	327	26- 7-20
Evans, David E.	Luscar	46	26- 7-31
Evans, D.	Frank	83	3- 9-09
Evans, Evan	Taber	362	22- 6-39
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Howell	Mountain Park	750	5- 9-29
Evans, Hugh	Lethbridge	156	12- 7-11
Evans, H.	Taber	94	2-12-09
Evans, I. L.	Blairmore	196	18- 6-35
*Evans, James D.	Drumheller	383	1- 8-21
Evans, Joseph H.	Midlandvale	72	15-10-46
Evans, Llewellyn	Coleman	152	7- 7-17
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Thomas L.	Calgary	367	1-11-20
Evans, Thomas O.	Blairmore	244	26- 6-19
Evans, William	Drumheller	360	26- 7-20
Ewing, David	Rosedale	105	14- 7-52
Ewing, Fred	Donalda	97	10- 6-33
Ewing, John J.	Rosedale	93	18- 7-47
Ewing, William G.	Drumheller	80	16- 7-51
Excoffon, Eugene	Bellevue	155	7- 7-17
Fairhurst, H.	Lethbridge	39	23-12-04
Farmer, Eli	Drumheller	189	10- 6-35
Farmer, James	Drumheller	176	27- 8-34
Farmer, John T.	Drinnan	80	17- 7-44
Farnworth, George	Nordegg	30	25- 7-41
Fawcett, Elmer S.	Cardiff	150	9- 6-34
*Ferguson, C. J.	Canmore	4	20-12-05
Ferguson, John	Commerce	34	23- 5-14
Ferguson, Joseph	Cadomin	70	30- 7-46
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Finkbinder, Henry	Scapa	30	26- 7-31
Fisher, Ernest	Bellevue	256	26- 6-19
Fisher, Harry	Hillcrest	338	26- 7-20
Fisher, James	Bellevue	194	3- 4-18
Fisher, John M.	Chin	190	10- 6-35
Fisher, Samuel	Drumheller (duplicate)	139	26- 1-34
Fisher, Walter E.	Nordegg	122	13- 7-48
Fisher, William J.	Bellevue	186	13- 7-17
Fishwick, Thomas	Mountain Park	98	12-10-15
Fiske, G. E.	Edmonton	88	27-11-09
*Fleischer, Carl H.	Rosebud	28	16- 7-49
Fleming, Nelson	Coleman	550	1-11-23
Flynn, Thomas E.	Coleman	306	26- 7-20
Folden, Irvine A.	East Coulee	323	9- 8-38
Fontana, B. J.	Coleman	57	20- 7-43
Fontana, Elmo J. P.	Champion	112	11- 7-53
Ford, Allen	Burmis	183	28-11-11
Ford, George C.	Drumheller	310	26- 7-20

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Forshaw, Richard	East Coulee	138	26- 1-34
Forsyth, John	Lethbridge	54	1- 7-43
Fortunaso, Joseph A.	Bellevue	13	16- 7-49
Forward, Hadynd	Lethbridge	58	19- 7-50
Foster, Cyril E.	Rocky Mountain House	60	2- 6-32
Foster, James	Lethbridge	174	17- 7-17
Foster, Richard	Edmonton	502	29-12-22
Foster, William	Pocahontas	31	28- 4-14
Fourneau, Jean F.	Bellevue	396	1- 8-21
Fowers, C. W.	Canmore	50	29- 5-08
Fox, A.	Taber	55	8- 1-09
Fox, A. A.	Canmore	808	29-10-30
Fox, Alfred Jr.	Carbon	334	19- 9-38
Fox, Benjamin	Carbon	297	11- 6-38
*Foye, Edward B.	Delia	93	1- 11-32
France, Harry	Nordegg	288	8-10-19
France, Henry A.	Coleman	19	16- 7-45
France, James	Nordegg	24	18- 7-45
Fraser, Alec	Carmanagay	274	26- 6-19
Fraser, James	Big Valley (duplicate)	286	25- 8-19
Fraser, James V.	Coleman	32	25- 7-41
Fraser, William B. Jr.	Coleman	350	8- 6-39
Fraser, William D.	Coleman	53	19- 7-50
*Fregren, Eric	Mercoal	280	11- 2-38
Fridel, Stephen	Barrhead	63	25- 6-32
Fry, George H.	Hillcrest	86	18- 7-47
Fry, Nicholas	Donalda	752	5- 9-29
Fudge, George H.	Cardiff	311	26- 7-20
Fulton, James	Champion	652	12- 8-27
Funfer, John J.	Bellevue	109	11- 7-53
Fyfe, Walter H.	Lethbridge	79	19- 8-15
Galbraith, A. G.	Coalhurst	460	31- 7-22
Galezna, Peter L.	Bittern Lake	113	3- 7-33
Gallagher, John	Rosedale	760	4- 6-30
Galvon, Joseph J.	Blairmore	21	16- 7-45
Gammie, John S.	Drumheller	226	8- 6-18
Garbett, Richard	Michel, B.C.	180	23-11-11
Gardner, H. H.	Coleman	135	31-10-33
Garner, E. Denison	Canmore	222	3- 6-36
Garrett, John	Lille	147	4- 7-11
*Gates, H.	Coleman	26	26- 4-04
Gatiss, R.	Long Coulee	85	25-11-09
Gavelin, Fred	Blairmore	519	17- 8-23
George, Peter	Three Hills	386	25- 7-39
Gerla, Bernard J.	Lethbridge	72	14- 7-44
Gibney, Frank	Grande Prairie	260	23- 6-37
Gibson, George	Blairmore	67	9-10-43
Gibson, Henry	Edmonton	349	26- 7-20
Gibson, James	Willow Creek	75	25- 6-32
Gibson, Joseph C.	Diamond City	587	24- 1-25
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gibson, William	Edmonton	370	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Giffen, H. R.	Coalfields	19	26- 4-04
*Gilday, Michael E.	Drumheller	63	11-12-14
Gill, Peter	Thorsby	352	8- 6-39
Gillespie, John C.	Drumheller	132	3- 8-16
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Strathcona	123	8-11-10
Gilmour, John	Cadomin	605	25- 7-25
Gilmour, Peter	Midlandvale	363	26- 7-20
Ginther, Patrick J.	Saunders	133	13- 7-48
Gitzel, Edward S.	Luscar	115	13- 7-48
Givens, John	Bankhead	158	10- 7-17
Gladwin, J.	Edmonton	97	20-12-09
Gladwin, John G.	Saunders	94	14- 7-52
Gladwin, Lewis C.	Carstairs	19	11- 7-41
Goldie, William	Lethbridge	24	1- 4-14
Goodrick, William L.	Commerce	168	17- 7-17
Goods, Peter	Drumheller	39	17- 7-42
Goodwin, Albert E.	Bellevue	43	26- 7-31
Goodwin, Andrew	Bellevue	187	13- 8-17
Goodwin, G. W.	Bellevue	320	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Goodwin, William	Bellevue	766	4- 6-30
Gordon, David L.	Drumheller	636	6- 8-26
*Gordon, Thomas	Clover Bar	248	26- 6-19
Gorton, James	Hillcrest	203	22- 7-12
Gosney, Fred	Cadomin	76	14- 7-44
Gosney, Fred W.	Mercoal (duplicate)	76	22-10-46
Gosney, John A.	Cadomin	112	13- 7-48
Gotheridge, C. F.	Round Hill	370	22- 6-39
Gotheridge, W. V.	Round Hill	26	26- 7-31
Graham, Robert	Clover Bar	50	27-11-14
*Graham, William	Coleman	19	26- 7-31
Grant, Alexander	Hillcrest	298	13- 6-38

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Grant, Donald A.	Hillcrest	242	26- 6-19
Grant, Ferguson	Hillcrest	113	13- 7-48
Grant, Robert	Lethbridge	10	10- 3-14
Grant, Robert H.	Camrose	2	23-10-13
*Graver, G.	East Coulee	201	4- 7-35
Green, Henry V.	Halkirk (duplicate)	291	15-11-19
Green, Walter	East Coulee	328	29- 8-38
Green, William	Luscar	775	10- 6-30
Green, William J.	Dinant	343	13- 2-39
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Gregory, John B.	Passburg	128	17-12-10
Gregory, William W.	Mountain Park	496	6- 9-22
Greig, Norman	Dinant	293	10- 6-38
*Grenda, Stanley	Turin	198	28- 6-35
Gresl, John	Bellevue	87	17- 7-44
Griffiths, Edward	Foot hills	367	22- 6-39
Griffiths, E. H.	Canmore	33	5-12-04
Griffiths, John T.	Lille	168	17-11-11
Griffiths, Owen	Foot hills	73	15-10-46
Griffiths, T. J.	Lille	77	18- 6-09
Groombridge, Thomas	Edberg	312	4- 7-38
Grubisich, Walter	Hinton	375	4- 7-39
Guiney, John C.	Rosebud	79	25- 6-32
Guisto, G.	Beazer	6	13- 7-31
Gurtler, Rudolph	East Coulee	83	16- 7-51
Gwilliam, David J. M.	Hillcrest	130	22-12-10
Hadfield, John	Coleman (duplicate)	21	4- 4-07
Hadfield, William A.	Coleman	567	16- 7-24
*Hadwell, A. J.	Bellevue	717	7- 6-29
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Hagblad, Theodore	Lethbridge	662	25- 7-25
Haines, Thomas	Coleman	37	23-12-04
Halbert, Benjamin G.	Trochu	151	9- 6-34
Halbert, David	Trochu	723	7- 6-29
Halbert, Henry J.	Trochu	106	14- 7-52
Halbert, Robert	Trochu	71	25- 6-32
Halbert, Robert A.	Trochu	217	23- 9-35
Hall, Ernest	Wayne	438	10-10-21
Hall, James	Nordegg	402	1- 8-21
Hall, Robert	Canmore	703	24-11-28
Halliday, George W.	Commerce (duplicate)	248	31- 7-13
Hallworth, Albert	Bellevue	52	12- 6-08
Hamilton, Charles	Edmonton	36	10- 1-08
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Hamilton, John	Lethbridge	120	10- 7-16
Hamilton, John M.	Hanna	657	14- 8-27
Hamilton, Joseph J.	Lethbridge	434	29- 8-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hanna, Thomas	Mercaol	269	21- 7-37
Hannen, James	Canmore	1	30- 5-06
*Hansen, Knud	Aerial	644	1- 8-27
Hanson, Andrew	Three Hills	187	10- 6-35
Hargreaves, George	Lethbridge	65	11-12-14
Harmison, William	Mountain Park	41	27- 8-14
Harpham, Henry A.	Clover Bar	37	27- 7-45
Harries, Henry C.	Coleman	209	26- 10-12
Harries, John	Wayne	568	16- 7-24
Harris, Edward V.	Rosedale	52	29- 7-42
Harris, Rupert S.	Edmonton	513	17- 8-23
Harrison, Thomas	Bankhead	29	11- 7-04
Harrop, William	Robb	2	29- 1-31
Hart, Daniel	Wayne	566	26- 6-24
Hart, James J.	Coleman	692	16- 8-28
Hartley, William	Bankhead	110	2- 6-10
Harvie, John	Taber	68	1- 2-09
Harvie, Robert	Lethbridge	40	23-12-04
Hastings, Andrew P.	Lethbridge	176	10- 7-17
Hawkins, E. L.	Nordegg	339	26- 7-20
Hawkins, Harold	Drumheller	541	1- 9-23
Hayes, Robert	Lundbreck	60	22- 1-09
Haynes, Arthur	Midlandvale	65	26- 7-46
Head, James	Taber	209	1- 6-18
Heap, Robert	Lundbreck	206	10- 8-12
Heathcote, Joseph	Edmonton	32	28- 4-14
Hedges, Richard	Beverly	239	29- 8-18
Heidel, Herbert G.	Priddis	401	12-10-39
Henderson, Andrew	Wayne	655	14- 8-27
Henderson, Austin J.	Luscar	79	17- 7-44
Henderson, James	Reid Hill	134	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Henderson, W.	Minott	61	26- 1-09
Henry, William B.	Newcastle	339	9-11-38
Herman, John R.	Mountain Park	33	25- 7-45
Herman, William M.	East Coulee	1	16- 7-49
Herpshaw, Joseph	Pocahontas	300	23- 3-20
Hetherington, Joseph W.	Carbon	609	25- 7-25

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Hetherington, R. Jr.	Wayne	420	1- 8-21
Hetherington, W. B.	Calgary	340	9-11-38
Heyworth, Ernest S.	Dinant	763	4- 6-30
Hibbert, George	Three Hills	28	15- 7-41
Hibbert, William T.	Coleman	622	11- 5-26
Higgins, Alfred	Bankhead	25	15- 5-07
Higgins, John	Bellevue	201	18- 4-18
Higney, John	Coalhurst	245	26- 6-19
Hilbert, Waddington	Mercoal	240	13-10-36
Hill, Ernest	Coleman	144	5- 6-34
Hill, James	Royal View	114	3- 6-10
Hillary, Harry	Bellevue	736	17- 6-29
*Hillary, John	Rosedale	258	26- 6-19
Hillary, Joseph	Drumheller	391	1- 8-21
Hillary, Michael	Midlandvale	665	26-10-27
Hilling, James	Coleman	43	23- 1-08
Hlasny, Edward S.	Drumheller	96	14- 7-52
Hluska, Walter	Robb	11	16- 7-49
Hodgkinson, John A.	Edmonton	205	1- 6-18
*Hogg, Charles M.	Lethbridge	424	1- 8-21
Hogg, John	Foothills	22	13- 7-31
*Holden, James	Bankhead	13	3- 1-07
Holland, Thomas	Lethbridge	161	10- 7-17
Holliday, Thomas	Drumheller	247	1- 6-37
Holliday, William	Drumheller	596	20- 7-25
Holmes, G. E.	Fernie, B.C.	15	1903
Holmes, Robert	Coleman	141	11-11-16
Holowatiuk, William	Newcastle	25	18- 7-45
Holton, Joseph	Magrath	140	5- 4-34
Honeyman, Maurice R.	Robb	369	22- 6-39
Hood, Andrew	Frank	20	21- 6-03
Hook, Alfred J.	Halkirk	78	25- 7-32
*Hooks, Albert	Drumheller	807	29-10-30
Hooks, John W.	Calgary	210	1- 6-18
Hooten, Robert	Edmonton	505	15- 2-23
Hooyberg, Adrian	Blairmore	9	16- 7-49
Hopkins, Arthur J.	Foothills	761	4- 6-30
Hopkins, John T.	Coleman	259	26- 6-19
Hopkins, William	Coleman	93	1- 9-15
Hopkins, William H.	Drumheller	451	31- 7-22
Hopper, Luther T.	Mercoal	72	16- 7-51
Horkulak, Andrew	Thorsby	25	15- 7-41
Horne, James	Mercoal	576	1- 8-24
*Horne, Thomas Jr.	Luscar	687	1- 8-28
Horner, Charles	Edmonton	440	16-12-21
Horz, E. Louis C.J.	Evansburg	308	22- 6-38
Hotte, Leonard	Coleman	2	16- 7-45
Howells, David T.	Lethbridge	27	15- 7-41
Howells, Edward W.	Mercoal	52	6- 1-32
Howells, John	Elcan	126	19- 7-16
Hronek, Ben	Halkirk	614	1- 8-25
Huck, Louis	Blairmore	15	16- 7-45
Huddart, Matthew	Bellevue	102	18-11-15
Hudyma, John	Pocahontas	207	1- 6-18
Huff, L. E.	Lethbridge	325	26- 7-20
Hughes, Angus	Coleman	572	24- 7-24
Hughes, Harry	Natal, B.C.	506	9- 3-23
Hughes, William A.	Luscar	54	19- 7-46
Hughes, William R.	Lille	181	23-11-11
Hulbert, H. A.	Coleman	747	23- 7-29
*Hulme, Charles	Hillcrest	124	17-12-10
Hulme, James	Carbon	564	26- 2-24
Humble, Stephen T.	Bellevue	29	23- 5-07
Hungar, Godfrey	Bellevue	113	11- 7-53
*Hunter, Alexander B.	Coleman	207	19- 8-12
Hunter, James	Edmonton	276	26- 6-19
Hunter, John T.	Garden Plain	148	7- 7-17
Hunter, Thomas	Edmonton	805	22-10-30
Hutchinson, George E.	Brookdale	404	1- 8-21
Hutchison, J. J.	Lovettville	332	26- 7-20
Hutchison, Peter	Frank	202	22- 7-13
Hutton, David T.	Bellevue	241	31- 7-13
Hutton, George	Bellevue	186	2-12-11
Hutton, Hugh	Bellevue	60	5-12-14
Hutton, Isaac	Bellevue	99	27-12-09
Hutton, John	Bellevue	135	30-12-10
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hyde, Isaac	Drumheller	134	15- 9-16
Hynd, William	Elcan	52	27-11-14
Instone, Henry	Hillcrest	197	3- 4-18
Inverarity, William	Rosebud	382	4- 7-39
Ironmonger, John	Hillcrest	145	3- 7-11
Ironmonger, Samuel	Hillcrest	37	16- 7-49
Ironmonger, William	Hillcrest	487	1- 8-22
Ivan, Mike	East Coulee	199	28- 6-35
Iwanichuk, John	Midlandvale	30	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Jackson, John	Bellevue	246	31- 7-13
Jackson, Harold W.	Forestburg	51	26- 7-42
Jackson, Richard A.	Canmore	15	16- 7-49
Jackson, Thomas	Coleman	495	1- 9-22
Jahelka, Reginald	Nordeg	59	19- 7-50
James, Albert J.	Forestburg	25	26- 7-31
James, Alfred	Drumheller	182	12-10-34
James, Henry	Coleman	53	14- 7-08
James, Hiram	Heisler	158	16- 6-34
James, Isaac A.	Coleman	252	26- 6-19
James, Isaiah	Rumsey	801	18-10-30
James, John	Pocahontas	28	21- 4-14
James, John C.	Mountain Park	7	3- 8-40
James, Joseph	Frank	25	26- 4-04
James, Joseph	Cadomin	248	3- 6-37
James, Thomas	Saunders	340	26- 7-20
*James, William	Pocahontas	234	31- 7-13
James, William	Mountain Park	14	6-11-40
Jensen, Ingvard M.	Shaughnessy	60	19- 7-50
Jinks, William E.	Beverly	180	25- 7-17
Johnson, Albert	Coleman	88	26- 8-15
Johnson, Alexander J.	Ardley	68	25- 6-32
Johnson, Chris	Carbon	561	28-12-23
Johnson, Martin R.	Rumsey	234	22- 6-36
*Johnson, Moses F.	Alix	804	18-10-30
Johnson, Oscar G. F.	Wayne	134	13- 7-48
*Johnson, Thomas	Drumheller	696	16- 8-28
Johnstone, Alexander	Clover Bar	329	26- 7-20
Jones, Arthur	Coleman	547	15- 8-23
Jones, Daniel	Dinant	474	31- 7-22
Jones, Daniel H.	Lovettville	99	10-12-15
Jones, David	Edmonton	69	1- 2-09
Jones, David	Taber	55	27-11-14
Jones, David	Wayne	133	25- 9-33
Jones, David I.	Wayne	578	11- 8-24
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Jones, E. W.	Drumheller	127	22- 8-33
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Elias	Coleman	680	1- 8-28
Jones, Erskine	Coalfields	47	18- 4-05
Jones, Evan	Coalfields	12	26- 4-04
Jones, Evan J.	Calgary	144	3- 7-17
*Jones, Griffith	Edmonton	375	17- 6-21
*Jones, I.	Edmonton	589	3- 3-25
Jones, Jack	Cardiff	127	17-12-10
Jones, Jasper R.	Coleman	49	19- 7-50
Jones, Jenkin	Luscar	771	4- 6-30
Jones, John H.	Taber	214	1- 6-18
Jones, J. R. B.	Edmonton	301	22- 6-38
Jones, Peter	Lethbridge	195	13- 7-12
Jones, Richard	Nordeg	289	8-10-19
Jones, Richard M.	Wayne	491	1- 9-22
*Jones, Samuel A.	Lethbridge	17	26- 4-04
Jones, William	Rosedale	74	14- 7-44
Jones, William J.	Rosalind	74	25- 6-32
Jones, Wyndham	Coleman	246	1- 6-37
Jones, W. J.	Newcastle	100	10- 6-33
*Jordan, William	Taber	220	20-11-12
Jordan, Benjamin	Calgary	463	31- 7-22
Joy, Arnold J. S.	Cadomin	25	16- 7-49
Joyce, Michael	Bickerdike	224	25-11-12
Jubb, J. W.	Drumheller	708	1- 5-29
Jungen, John	Drumheller	98	14- 7-52
Kane, Frank	Hinton	344	3- 4-39
Karashowsky, Eugene	Nordeg	95	14- 7-52
Kay, Arthur	Coleman	501	1-11-22
Kay, Valiant E.	Coleman	67	16- 7-51
Kay, Walter S.	Drumheller	754	12-11-29
Kay, William	Drumheller	53	26- 2-32
Kaye, Herschal	Mayercroft	191	4- 1-12
Keef, James	Mercoial	26	18- 7-45
Kehl, Isodore	Nordeg	359	26- 7-20
Keith, Albert	East Coulee	250	11- 6-37
Keith, Roy	Willow Creek	254	11- 6-37
Kelly, Patrick	Edmonton	147	7- 7-17
Kemp, David	Beaver Mines	201	22- 7-12
Kenakin, Peter	Rosedale	63	27- 7-46
Kendrick, Samuel O.	Coalhurst	597	20- 7-25
Kennedy, Joseph	Willow Creek	799	10- 9-30
*Kennedy, William	Mountain Park	606	25- 7-25
Kenyon, William	Mountain Park	44	28- 9-14
Keough, Frank J.	Drumheller	134	30- 9-33
Kergan, Robert G.	Lethbridge	610	25- 7-25
Kerr, Fraser	Langford Park	96	18- 7-47
Kerr, Robert	Lundbreck	76	17- 6-09
Kerr, Robert G.	Blairmore	764	4- 6-30

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, W. R.	Coleman	89	29-11-09
Kerrison, Thomas W.	Eyremore	163	10- 7-17
Kiernan, Patrick	Robb	3	20- 2-31
Kinakin, Peter	Coleman	46	18- 7-46
King, John J. J.	Nordegg	221	8- 6-18
King, Joseph	Coalhurst	726	7- 6-29
Kinnear, John A.	Coleman	64	22- 7-43
*Kirkeberg, Henry S.	Michel, B.C.	87	27-11-09
Kirkeby, B. A.	Craigmyle	101	10- 6-33
Kirkham, Thomas	Sheerness	284	26- 6-19
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Klejko, Stephen	Coleman	213	1- 6-18
Knight, William	Carbondale	261	23- 6-37
Knox, Joseph	Hardieville	119	10- 7-16
Knudson, Arthur	Canmore	586	4-12-24
Koehler, William A.	Wabamun	98	18- 7-47
Koentges, John	Blairmore	182	25- 7-17
Koentges, Joseph	Bellevue	770	4- 6-30
Komperdo, John	Heisler	81	16- 7-51
Kormendy, Alexander	Rosedale	99	18- 8-44
Kormendy, Joe	Rosedale	103	25-10-44
Korner, Robert T.	Coleman	45	19- 7-50
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kovacs, John	Shaughnessy	50	18- 7-46
Kowal, Alex	Canmore	790	14- 6-30
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Kralik, Cyprin	Newcastle	111	11- 7-53
Krause, Herman F.	Lethbridge	407	1- 8-21
Krill, Melvin	East Coulee	66	16- 7-51
Krossa, O.	Shaughnessy	181	9-10-34
Krupper, August	Drumheller	711	7- 6-29
Kryskow, Michael	Carbondale	20	12- 7-41
Kryskow, Wilfred	Morinville	57	19- 7-50
Krywolt, Edward	Coleman	51	18- 7-46
Kuban, Stephen J.	Bellevue	16	16- 7-49
Kubica, Alois	Coleman	40	19- 7-50
Kubica, Mike P.	Coleman	12	16- 7-45
Kubicek, Fred	Rosedale	135	13- 7-48
Kubin, John J.	Coleman	42	17- 7-42
Kummer, William	High River	263	23- 6-37
Kurp, Benjamin C.	Alix	143	5- 6-34
Kurp, Thomas J.	Delburne	172	13- 8-34
Kusnir, John	Cambria	81	17- 7-44
Kwiczak, William	Drumheller	19	16- 7-49
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Laight, Jonas	Medicine Hat	233	3- 5-13
Laing, W. R.	Cadomin	774	10- 6-30
*Lammie, Robert	Beverly	694	16- 8-28
Lamond, David	Frank	109	10- 7-16
Lamont, David	Frank	98	24-12-09
Larson, Tony	Edberg	33	25- 7-41
Lavis, George	Drumheller	585	14-11-24
Lawrence, Ernest G.	Bellevue	59	23- 8-46
Lawrence, John	Drumheller	294	1-12-19
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Learnmonth, A. J.	Lundbreck	42	23- 1-08
*Leblanc, Emile	Coleman	153	8- 7-11
Leckie, Samuel	Rosedale	407	26- 1-40
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lee, Charles	Mountain Park	116	13- 7-48
Lee, Walter J.	Nordegg	269	26- 6-19
LeGear, Max	Forestburg	100	18- 8-44
Lehmann, Max	Wayne	742	5- 7-29
Leitch, Andrew S.	Edmonton	57	20- 7-46
Leitch, Thomas	Drumheller	660	1- 9-27
Leivers, Albert	Wayne	12	13- 7-31
Leonard, Philip	Nordegg	479	1- 8-22
Lesson, Steve	Bellevue	354	8- 6-39
Letcher, John J.	Hillcrest	149	4- 7-11
Letcher, Joseph H.	Lovettville	100	12-10-15
Letcher, R. C.	Hillcrest	795	12- 7-30
Levesque, C.	Aerial	82	17- 7-44
Lewis, Fred	Mountain Park	227	22- 6-36
Lewis, Hanbury	Calgary	364	1-11-20
Lewis, John W.	Mountain Park	580	25- 9-24
Lewis, Thomas	Hardieville	131	26- 7-16
Lidgett, James	Entwistle	125	13- 7-48
Lidgett, Joseph L.	Mercoal	60	20- 7-43
Lindsay, James	Coalhurst	273	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lister, Arthur L.	Cadomin	232	22- 6-36
Littler, John	Rankhead	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Little, Robert	Michel, B.C.	166	17-11-11
*Livingstone, James C.	Lethbridge	18	26-4-08
*Livingstone, Robert D.	Lethbridge	7	21-11-98
Livingstone, R. D.	Lethbridge	39	16-10-45
Lloyd, James H.	Blairmore	192	10-6-35
Loftus, Edward	Drumheller	111	10-7-16
Logan, John T.	Drumheller	190	6-9-17
Lohmaier, Peter	Sheerness	238	15-7-18
Longworth, John	Bellevue	634	30-7-26
Longworth, Thomas	Lethbridge	146	5-7-17
Lonsbury, W. P.	Coleman	191	10-6-35
Looten, Henry J.	Newcastle	44	19-7-50
Looten, Henry V.	Newcastle	186	20-2-35
*Lote, Francis	Hillcrest	195	3-4-18
Louhela, Sulo A.	Canmore	295	10-6-38
Loula, William	Bellevue	374	22-6-39
Love, William	Edmonton	86	27-11-09
Low, James A.	Coleman	147	5-6-34
Lowry, William J.	Drumheller	641	22-9-26
Loxton, George	Fernie, B.C.	176	17-11-11
Loxton, John	Fernie, B.C.	51	27-11-14
*Ludbrook, Ellis E.	Bickerdike	237	31-7-13
Ludwig, Peter	Rosedale	136	13-7-48
Luini, Louis	Hillcrest	376	4-7-39
Lund, Fred	Blairmore	767	4-6-30
Lynass, James C.	Delburne	310	22-6-38
Lynass, John	Delburne (duplicate)	108	8-9-48
Lynch, Stewart	Canmore	26	15-4-14
Lyons, Frank Q.	Blairmore	103	18-7-47
Lytkowski, William P.	Canmore	503	30-12-22
Machin, J. C.	Strathcona	46	26-2-08
Mackie, James	Big Valley	608	25-7-25
Mackie, John	Corbin, B.C.	221	25-11-12
Mackie, William	Drumheller	645	1-8-27
Macri, D.	Brule	518	17-8-23
Maddison, John	Hillcrest	354	26-7-20
Maddison, William	Mountain Park	136	25-9-16
Madsen, Soren	Mountain Park (duplicate)	406	30-11-39
Mahoney, Patrick	Luscar	137	13-7-48
Makin, John	Hillcrest	29	16-7-49
Makin, John W.	Coleman	240	31-7-13
*Mallabone, Ernest	Canmore	105	7-7-16
Marasco, Frank	Nordegg	23	15-7-41
March, John	Edmonton	56	20-7-46
Marconi Gordon	Coleman	22	12-7-41
Marconi, John	Coleman	363	22-6-39
Marsh, Ernest	Taber	61	5-12-14
Marsh, John	Coalhurst	51	6-1-32
Marsh, John H.	Taber	75	20-3-15
Marsh, Walter	Kellog, Idaho	538	17-8-23
Marsh, Walter W.	Delburne	279	12-11-37
Marsh, William	Drumheller	230	8-6-18
Marsh, William J.	Midlandvale	776	10-6-30
Marshall, Albert C.	Delia	365	22-6-39
Marshall, Charles H.	Leduc	256	11-6-37
Marshall, Robert	Leduc	255	11-6-37
Martell, John	Lethbridge (duplicate)	65	22-7-50
*Martin, Bert W.	Alexo	385	25-7-39
Martin, David	Blairmore	527	17-8-23
*Martin, Henry Sr.	Saunders	549	15-9-23
*Martin, Richard	Taber	135	25-9-16
Martin, William H.	Rosevear (duplicate)	53	4-12-42
Mason, Samuel	Taber	187	6-12-11
Massey, Harry	Michel, B.C.	172	17-11-11
Mather, John	Bickerdike	45	26-10-14
Mather, John H.	Namao	13	29-10-40
Mather, Stanley	East Coulee	78	15-7-44
*Mather, Thomas	Taber	96	8-12-09
Mather, Walter	Coleman	84	24-8-32
Matheson, James P.	Rosedale	138	13-7-48
Mathewson, James	Nevis	236	22-6-18
Mathieson, David	Edmonton	789	14-6-30
Mattson, Allie E.	Bellevue	5	16-7-45
Mattson, Matt	Frank	34	5-12-04
May, John	Drumheller	786	14-6-30
May, William J.A.N.	Drumheller	119	12-7-54
Mayo, Daniel	Drumheller	707	20-3-29
Mayzel, Albert D.	Heisler	84	16-7-51
Mazur, Walter J.	Mercoia	139	13-7-48
Measor, George B.	Canmore	114	11-7-53
Meek, Fred G.	Heisler	737	17-6-29
Melling, Joseph	Evansburg	335	26-7-20
Melling, Peter	Coalhurst	208	26-10-12
Melson, Philip	East Coulee	359	8-6-39
Melvin, J. L.	Lethbridge	371	28-12-20
Menzies, William	Drumheller	212	10-8-35

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Merrington, Robert H.	Ryley	31	25- 7-41
Metcalf, Joseph W.	Drumheller (duplicate)	666	16- 1-28
Meyers, August	Drumheller	406	1- 8-21
Michayluck, John G.	Frank	184	25- 7-17
Michielin, Ido D.	Midlandvale	74	16- 7-51
Mikulosik, Frank	Cambria	70	16- 7-51
Milburn, Wilfred	Frank	115	11- 7-53
Millar, C. C.	Bellevue	714	7- 6-29
Millar, David	Mercoial	627	26- 7-26
Millar, Peter P.	Drumheller	127	26- 7-16
Miller, David L.	Taber	114	10- 7-16
Miller, Douglas	Edmonton	236	4- 7-36
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Miller, Joseph	Stafford Village	14	10- 4-14
Miller, Joseph Jr.	Lethbridge	326	26- 7-20
Miller, Walter	Bellevue	159	25- 8-11
Miller, William	Drumheller	535	17- 8-23
Mills, John R.	Heisler	61	19- 7-50
Mills, Jonathan J.	Rosalind	283	22- 4-38
Milnes, John	Bellevue	334	26- 7-20
Minue, Graydon B.	Nordegg	410	1- 8-21
Miskow, Michael J.	Canmore	284	7- 6-38
Mitchell, Archie	Calgary	412	1- 8-21
* Mitchell, Charles G.	Fincher Creek	82	24- 8-32
Mitchell, David	Luscar	380	4- 7-39
Mitchell, Hugh J.	Foothills	569	24- 7-24
Mitchell, John	Evansburg	143	27- 2-17
Mitchell, J. M. P.	East Coulee	83	17- 7-44
Mitchell, Robert A.	Bellevue	10	4- 9-40
Mitchell, Thomas	Luscar (duplicate)	106	16- 9-47
Mitchell, William	Dimsdale	174	27- 8-34
Mitchinson, Arthur	Donalda	88	23- 9-32
Mitchinson, Thomas	Donalda	18	11- 7-41
Molnar, Vendel S.	Hillcrest	23	17- 7-45
Molyneux, Thomas	Aerial	102	10- 6-33
Molzan, Henry	East Coulee	111	15- 6-33
Monkton, William	Rosedale	322	26- 7-20
Moore, James H.	Coleman	167	17-11-11
Moore, Thomas E.	Eyremore	56	11- 1-09
Moran, James Jr.	Edmonton	342	10-12-38
Morel, Marcel E.	Ghost Pine (duplicate)	78	29-10-46
Morgan, Ernest	Blairmore	15	13- 7-31
Morgan, Owen	Coleman	143	3- 7-11
Morgan, Robert M.	Coleman	160	10- 7-17
Morgan, William J.	Canmore	64	11-12-14
* Morris, David	Edmonton	45	24- 2-08
Morris, David	Bellevue	720	7- 6-29
Morris, John	Bellevue	30	20- 7-45
Morris, Robert L.	Coleman	294	10- 6-38
Morris, Robert S.	Aerial	745	12- 7-29
Morris, William	Cadomin	744	12- 7-29
Morrison, Malcolm	Coleman	189	30-12-11
Morrison, Neil	Mercoial	26	15- 7-41
* Morse, Alfred T.	Drumheller	172	17- 7-17
Morse, William J.	Hanna	156	12- 6-34
Mossey, Robert	Frank	507	17- 5-23
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Mossom, John	Drumheller	734	17- 6-29
Mottishaw, Walter R.	Bellevue	13	16- 7-45
Mrokwa, Victor Jr.	Canmore	285	7- 6-38
Muir, Alexander	Hardieville	12	10- 3-14
Muir, Alexander	Coleman	593	20- 7-25
Muir, David	Lundbreck	151	8- 7-11
Muir, George	Edmonton	265	13- 7-37
Muir, James	Bankhead	57	5-12-14
Muir, James	Edmonton	137	28-12-33
* Muir, Robert	Bankhead	21	23- 3-14
Muir, Thomas	Coalhurst	800	18-10-30
Mullinger, William H.	Three Hills	35	20- 8-41
Muncy, Howard C.	Foreman	693	16- 8-28
Munro, William K.	Lille	150	4- 7-11
Murray, David	Hillcrest	35	26- 5-14
Murray, John	Lille	174	17-11-11
Murphy, Peter J. Jr.	Drumheller	325	15- 8-38
Musgrove, Henry B.	Canmore	674	19- 7-28
Musgrove, William	Canmore	9	23- 8-00
MacAskill, Alexander	Drumheller	380	1- 8-21
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
MacDonald, George G.	Beverly	242	14- 1-37
MacDonald, Leslie M.	Bellevue	713	7- 6-29
MacDonald, William	Drumheller	431	29- 8-21
MacKay, Duncan	Mercoial	7	16- 7-45
MacKay, William J. K.	Coalspur	240	28- 1-19

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
MacKenzie, John	East Coulee	299	13- 6-38
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacLeod, Roderick	Coleman	470	31- 7-22
MacNeil, James	Cadomin	537	17- 8-23
MacPherson, John M.	Coalhurst	257	26- 6-19
MacPherson, Norman T.	Heisler	82	16- 7-51
MacQuarrie, Hector	Drinnan	364	22- 6-39
McAllister, David	Mountain Park	613	1- 8-25
McAllister-Thompson, D.S.B.	Rosedale	735	17- 6-29
McAndrew, John	Lovett	83	19- 8-15
*McAndrew, John Jr.	Blairmore	769	4- 6-30
McAndrew, Robert	Clover Bar (duplicate)	196	3- 4-18
McColl, Alexander	Lethbridge	109	15- 6-33
*McCormack, A. D.	Castor	675	19- 7-28
McCubbrey, James	Drumheller	458	31- 7-22
McCulloch, Alex	Lille	43	18- 4-05
McCulloch, Archibald	Coleman	349	8- 6-39
McCulloch, Johnston	Coleman	642	30- 7-26
McCutcheon, James A.	Midlandvale	803	18-10-30
McDade, John	Drumheller	290	8-11-19
McDevitt, James J.	Tofield	129	22-12-10
McDicken, James	Coleman	251	26- 6-19
McDonald, Duncan	Canmore	112	2- 6-10
*McDonald, Hector	Bankhead	115	3- 6-10
McDonald, George	Drumheller	212	1- 6-18
McDonald, J. A.	Blairmore	44	18- 4-05
McDonald, James A.	Lille	91	29-11-09
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, James W.	Mountain Park	709	1- 5-29
McDonald, John H.	Edmonton	164	10- 7-17
McDonald, Kenneth L.	Bellevue	40	17- 7-42
McDonald, Noble M.	Bellevue	5	28-11-13
McDonald, Thomas	Rosedale	653	12- 8-27
McDonald, William	Bellevue	777	10- 6-30
McDonald, William C.	Lethbridge	122	16- 7-10
*McDonald, William I.	Drumheller	235	22- 6-36
McEachern, Malcolm	Wayne	531	17- 8-23
McFegan, Alex	Drumheller	661	10- 9-27
McFegan, Robert	Brule	255	26- 6-19
McGarry, Martin	Michel, B.C.	59	19- 1-09
McGaw, A. M. S.	Carmanagay	398	1- 8-21
McGough, Joseph P.	Bellevue	219	18-11-12
McGladrie, Andrew	Lethbridge	423	1- 8-21
McGladrie, John	Lille	152	8- 7-11
McGladrie, Robert I.	Nevis	63	24- 7-43
McGowan, James K.	Lethbridge	13	10- 3-14
McGowan, John	Drumheller	57	2- 6-32
McGowan, William	Lethbridge	317	26- 7-20
McGregor, Alex	Frank	41	16- 1-05
McGregor, Alexander	Lethbridge	271	26- 7-37
McGregor, Thomas B.	Lethbridge	417	1- 8-21
McGuckie, J. M.	Wayne	97	3- 8-44
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
McIlveen, William	Lovett	80	19- 8-15
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McIntyre, John R.	Mercoal	107	18- 7-47
McIntyre, Joseph P.	Coleman	92	18- 7-47
McIsaac, John D.	Burmis	45	17- 7-42
McKay, John J.	Lethbridge	5	19-11-98
McKean, George J.	Bellevue	121	10- 7-16
McKenna, Harry	Pocahontas	376	17- 6-21
McKinlay, James	Huxley (duplicate)	224	3- 6-36
McKinnie, John	Drumheller	369	26- 7-20
McKinnon, A. J.	Canmore	62	29- 1-09
McKinnon, Alexander	Coleman	632	30- 7-26
McKinnon, H. G.	Canmore	36	5-12-04
McKinnon, John L.	Coleman	189	4- 9-17
McLafferty, Daniel	Bellevue	50	26- 7-42
McLafferty, Hugh P.	Bellevue	12	16- 7-49
McLafferty, P.	Bellevue	551	1-11-23
McLaren, Fred	Dinant	341	14-11-38
McLaren, Ian	Cadomin (duplicate)	38	19- 6-50
McLaughlin, Michael	Luscar	403	30-10-39
McLean, William	Mountain Park	122	10- 7-16
McLeary, Stewart	Lethbridge	58	12- 1-09
McLellan, John A.	Lovett	77	8- 5-15
McLenahan, John A.	Strathcona	51	8- 6-08
McLennan, George A.	Drumheller	534	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLeod, Archibald R.	Mercoal	92	14- 7-52
McLeod, Arthur	Drumheller	50	22-10-31
McLeod, Gordon J.	Mountain Park	422	1- 8-21
*McLeod, John A.	Edmonton	74	8- 3-15
McLeod, John R.	Bellevue	591	27- 5-25

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
McMillan, Alexander	Rosebud	34	28- 7-41
McMillan, Daniel	Drumheller	149	7- 7-17
McMillan, Donald	Coleman	107	31- 5-10
McMillan, James	Mountain Park	66	11- 8-43
McMillan, William	Rosebud	168	26- 7-34
McMillan, William D.	Lethbridge	72	25- 2-09
McMullen, Sidney G.	Drumheller	311	22- 6-38
McMullin, Joseph	Hillcrest	171	17-11-11
McMurdo, Thomas	East Coulee	18	13- 7-31
McNab, Duncan	Lethbridge	739	17- 6-29
McNab, Murdoch	Coalhurst	419	1- 8-21
McNeil, Thomas	Mountain Park	36	4- 3-42
McQueen, Alexander	Mercoal	101	5-10-44
McQueen, Andrew	Nordegg	124	19- 7-16
McQueen, George	Nordegg	270	26- 6-19
McQueen, Thomas A.	Mercoal	64	27- 7-46
McVey, William	Frank	39	10- 1-08
*Naegeli, Otto	Midlandvale	54	26- 2-32
Nanson, Thomas H.	Canmore	15	3- 1-07
Nedimovich, Stanley	Mercoal	110	18- 7-47
Negrello, Mike	Coalhurst	7	13- 7-31
Nelson, Horatio	Lundbreck	11	3- 1-07
Nelson, John	Rosedale	356	8- 6-39
Nelson, John B. H.	Dinant	335	19- 9-38
Neumann, Theodore O.	Cadomin	4	16- 7-49
Niblett, Ronald J.	Rosedale	41	17- 7-42
Nicholson, Peter	Cadomin	472	31- 7-22
Nicol, George	Pocahontas	27	21- 4-14
*Nicol, James	Frank	34	26-12-07
Nielsen, Nils F.	Carbondale	223	3- 6-36
Nisbet, George	Beverly	759	4- 6-30
Niskanen, Herman	Canmore	671	19- 7-28
Norman, John	Beverly	136	31-10-33
Norris, Fred A.	Mountain Park	32	25- 7-45
North, Walter J.	Blairmore	204	18- 4-18
*Novak, Mike	Milk River	56	4- 5-32
*Nugent, Bernard	Taber	133	20- 8-16
Oakes, Robert	Bankhead	104	10- 6-16
Oakley, John	Mountain Park	115	10- 7-16
O'Brien, Anthony	Gadsby	244	10- 3-37
O'Donnell, Thomas	Kipp	139	17- 3-11
Olah, Julius	Shaughnessy	8	16- 7-49
Oldham, Albert	Luscar	579	11- 8-24
Olesky, Samuel P.	Mountain Park	77	14- 7-44
Oliphant, John	Bellevue	79	16- 7-09
Oliphant, J. H.	Frank	26	17- 5-07
Olitch, Charles	Bellevue	48	18- 7-46
Oliver, B.	Magrath	342	26- 7-20
Oliver, Edward	Taber	584	14-11-24
Olynek, Edward	Bellevue	42	19- 7-50
Ondrik, John F.	Coleman	16	16- 7-45
Ondrus, John P. P.	Coleman	39	19- 7-50
O'Neill, Henry J.	Nordegg	28	20- 7-45
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Ostler, James	Taber	445	22- 5-22
Oswald, Joseph	Drumheller	178	10- 9-34
Otrasek, Michael	Aerial	93	20- 7-44
Ottewell, Cedric P.	Clover Bar	620	25-11-25
Ottewell, William J.	Clover Bar	245	31- 7-13
Owen, Thomas	Michel, B.C.	442	10- 3-22
Owens, John	Midlandvale	177	4- 9-34
Oxbury, John	Benyon	327	26- 8-38
Paavola, Henry	Canmore	45	18- 7-46
Padgett, Albert	Bellevue	177	17- 7-17
Page, Joseph	Kindersley (duplicate)	107	25- 2-48
Painter, J. A.	Bankhead	361	26- 7-20
Panchysyn, Edward J. J.	Blairmore	41	19- 7-50
Panek, Albin F.	Coleman	44	18- 7-46
Park, Alex C.	Lethbridge	25	8- 4-14
Park, Angus	Edmonton	773	4- 6-30
Park, Stewart G.	Lethbridge	121	25- 6-10
Park, William	Lethbridge	194	13- 7-12
Parker, Jack	Cardiff	165	27- 6-34
Parker, Joseph	Drumheller	47	25-11-14
Parker, Levi	Bellevue	100	18- 1-10
Parke, John T.	Lethbridge	236	31- 7-13
Parkinson, Harry	Coleman	465	31- 7-22
Parobchak, F.	Carbondale	353	8- 6-39
Parry, Joseph	Mercoal	316	8- 7-38
Parry, Robert	Coleman	546	15- 9-23
Parry, Thomas	Hillcrest	119	21- 6-10
Pascoe, Thomas	Mountain Park	796	14- 7-30
Pasechnik, Archie	Nordegg	24	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Passey, Thomas R.	Rosedale	111	13- 7-48
Passoli, E. L.	Vulcan	314	4- 7-38
Paterson, Patrick	Evansburg	139	3-10-16
Paterson, Samuel E.	Blairmore	778	10- 6-30
Paton, George	Delburne	727	7- 6-29
Patterson, John	Hillcrest	126	17-12-10
Patterson, William	Blairmore	515	17- 8-23
*Pavier, Evan	Coleman	91	27- 8-15
Pearson, Francis	Hillcrest	468	31- 7-22
Perini, Angelo	Granlea	194	10- 6-35
Perini, John	Lethbridge	153	9- 6-34
Perry, James E.	Benyon	612	25- 7-25
Peta, Frank	Lethbridge	104	24-10-44
Peta, Julius	Hardieville	225	4- 6-36
Peters, Frederick C.	Wayne	582	25- 9-24
Peters, William E.	Blairmore	762	4- 6-30
Petit, Jules A.	Newcastle	71	14- 7-44
Petrosky, M. J.	Coleman	96	20- 7-44
Pettigrew, Robert	Coleman	20	13- 7-31
Phillips, Alfred J.	Coleman	146	5- 6-34
*Phillips, Charles	Frank	14	30-12-02
Phillips, David	Commerce	110	10- 7-16
Phillips, W. J.	Saunders	733	17- 6-29
Phillips, W. T.	Castor	99	10- 6-33
Phipps, Mathew J.	Mountain Park	494	1- 9-22
Pickard, Joseph	Edmonton	592	20- 7-25
Pickering, G.	Taber	104	25- 2-10
Picton, Daniel	Passburg	178	23-11-11
Picton, William	Frank	78	8- 7-09
Pierzchala, John T.	Hillcrest	18	16- 7-49
Pike, Sidney G.	Drumheller	119	24- 7-33
Piper, John J.	Canmore	716	7- 6-29
Pitt, Arthur J.	Coleman	108	10- 7-16
Plesuk, William	Beverly	357	8- 6-39
*Poholka, Steve	Edmonton	149	9- 6-34
Politt, Alexander	Alexo	78	16- 7-51
Poole, Alexander	Drumheller	241	16- 5-19
Popovich, Mike	Champion	112	3- 7-33
Porteous, Alexander	Hillcrest	36	26- 5-14
Potter, Albert T.	Drumheller	88	18- 7-47
Potter, Harry	Drumheller	797	8- 8-30
Potter, I. N.	Nacmine	167	26- 7-34
Pounder, George	Pincher Creek	84	22- 9-09
Powell, Albert E.	Clover Bar	71	4- 2-09
Powell, John E.	Newcastle	700	22- 8-28
Powell, Roy S.	East Coulee	116	12- 7-54
Poxton, Wilfred	Carbon	555	15-11-23
Pratt, Philip	Lovettville	117	10- 7-16
Premoroko, Peter	East Coulee	21	16- 7-49
Prentice, John	Lille	67	1- 2-09
Prescott, William	Hillcrest	249	26- 6-19
Price, Alfred	Edmonton	103	4- 1-16
*Price, John	Mountain Park	116	10- 7-16
Price, John	Mountain Park	497	1-11-22
Price, John C.	Coleman	377	4- 7-39
Price Richard	Hillcrest	590	21- 4-25
Price, Stanley R.	Blairmore	9	13- 7-31
Price, William M.	Midlandvale	62	19- 7-50
Price, William T.	Edmonton	195	14- 6-35
Prokopetz, Walter	Alexo	85	16- 7-51
Protti, Sam	Mercoal	63	19- 7-50
*Puckett, Owen L.	Lovett	53	27-11-14
Pullen, Peter F.	Alexo	6	16- 7-49
Purdy, Denzil	Lundbreck	237	4- 7-36
Purdy, Stearns J.	Bellevue	37	28- 5-14
Quaife, Delbert C.	Rimby	74	15-10-46
Quaife, Stanley	Saunders	87	2- 1-52
Queen, Andrew M.	Lethbridge	228	26-12-12
Quigley, Daniel H.	Lethbridge	157	14- 7-11
Quin, James	East Coulee	66	25- 6-32
Radford, James	Bellevue	200	22- 7-12
Radford, James T.	Bellevue	132	15- 9-33
Radford, J. H.	Heisler	738	17- 6-29
Radocy, Isaac C.	Aerial	23	13- 7-31
Radocy, Kenneth	Aerial	70	14- 7-44
Rae, Alex	Blairmore	47	18- 7-42
Rae, John	Coleman	242	31- 7-13
Raeder, William	Elkwater	110	15- 6-33
Raisbeck, A. B.	East Coulee	785	10- 6-30
Raisbeck, James	East Coulee	215	29- 8-35
Raisbeck, Luke	East Coulee	330	7- 9-38
Raisbeck, Robert M.	Drumheller	213	12- 8-35
Ramage, John	Coalhurst	648	12- 8-27
Ramsay, Hector M.	East Coulee	102	18- 7-47
Randall, David	Coleman	191	10-10-17
Rankin, William	Hosmer, B.C.	4	28-11-13

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Rappel, A. J.	Calgary	355	26- 7-20
Rappel, Thomas	Rosedale	337	26- 7-20
Rasmussen, Harold M.	Bremerton, Wash.	109	28- 6-49
Ratcliffe, Thomas	Drumheller	24	13- 7-31
Rawlinson, Rowland	Burmis	182	28-11-11
Rawson, Thomas S.	Frank	1	20-12-05
Ray, William J.	Hillcrest	669	22- 4-28
Raymond, Henry	Coleman	64	19- 7-50
Rayner, Frederick	Frank	188	8-12-11
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Rebar, George	Lethbridge	229	22- 6-36
Rebar, Mike	Hardieville	19	18- 3-14
Redpath, James	Wayne	208	1- 6-18
Reed, John C.	Edmonton	779	10- 6-30
Rees, Daniel	Bellevue	56	27-11-14
Rees, Daniel	East Coulee	270	24- 7-37
Rees, Edward D.	Bellevue	105	15- 6-33
Rees, Ernest	Hillcrest	686	1- 8-28
Rees, Homer	Beverly	96	12-10-15
Rees, Sandford	Mountain Park	81	28- 7-32
Reese, William H.	Lethbridge	435	29- 8-21
Reid, Edward	Drumheller	206	1- 6-18
Reid, James	Taber	158	24- 7-11
Reid, Samuel	Beverly	211	1- 6-18
Reid, William P.	Lethbridge	732	17- 6-29
Reissig, Erich	Willow Creek	388	12- 8-39
Remillard, Omer V.	Castor	304	22- 6-38
Reynolds, Arthur C.	Robb	117	12- 7-54
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Reynolds, Horace C.	Canmore	11	13- 7-31
Rhodes, George	Champion	96	10- 6-33
Rhodes, Harold	Robb	36	1- 8-45
Rhodes, William B.	Lundbreck	625	26- 7-26
Rice, Awrey	Frank	48	18- 4-05
Rich, Frank	Saunders	48	19- 7-50
Richards, Clifford	Hillcrest	17	11- 7-41
*Richards, Edward	Drumheller	271	26- 6-19
Richards, Evan	Cardiff	162	17-11-11
Richards, George	Coleman	137	31-12-10
Richards, Harold	Hillcrest	484	1- 8-22
Richards, John C.	Coleman	386	1- 8-21
Richards, Lorenzo	Coleman	142	5- 6-34
Richards, Lorenzo C.	Coleman	286	7- 6-38
Richards, M. C. Russell	Edmonton	509	17- 5-23
Richards, Samuel	Corbin, B.C.	175	17-11-11
Richards, Thomas	Wayne	392	1- 8-21
Richardson, Alfred	Lethbridge	125	17-12-10
Richardson, E. H.	East Coulee	205	17- 7-35
Richardson, John	Camrose	393	1- 9-39
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Riordan, Leo	Drumheller	173	13- 8-34
Riva, Joseph	Canmore	288	8- 6-38
Robbins, John	Drumheller	390	17- 8-39
Robert, David C.	Coleman	113	10- 7-16
Roberts, David O.	Edmonton	106	7- 7-16
*Roberts, E.	Passburg	118	20- 6-10
Roberts, Evan	Wayne	318	26- 7-20
Roberts, Horace	Drumheller	251	11- 6-37
Roberts, John	Nelson, B.C.	140	6- 4-11
Roberts, Lemuel	Wayne	488	1- 8-22
Roberts, Robert	Wayne	464	31- 7-22
Roberts, Simon	Cadomin	21	13- 7-31
Roberts, William	Strathcona	95	3-12-09
Roberts, William	Rosedale	11	4- 9-40
Robertson, Alexander	Lethbridge	633	30- 7-26
Robertson, Duncan	Drumheller	47	26- 7-31
Robertson, W. J.	Coalhurst	333	26- 7-20
Robinson, Edward	Drumheller	101	28-10-15
Robinson, John H.	Hillcrest	106	31- 5-10
Rochester, John J.	Carbon	689	1- 8-28
Rock, Millan	Cadomin	27	16- 7-49
Rogers, Benjamin	Canmore	753	5-11-29
Rolfe, Emrys	Hillcrest	691	16- 8-28
Rollingson, John	Lethbridge	280	26- 6-19
Roome, Herbert	Mountain Park	44	17- 7-42
Roome, John	Mountain Park	49	26- 7-42
*Roome, Richard	Mountain Park	588	24- 1-25
Rose, Walter	Lundbreck	54	25- 8-08
Ross, A. W.	Delia	124	29- 7-33
Rota, Steve	Champion	219	29- 8-35
Rowbotham, William H.	Royal View	116	6- 6-10
Rowley, Arthur	Calgary	455	31- 7-22
Royle, Edward	Hillcrest	323	26- 7-20
Rozzolini, Albert	Raymond	126	29- 7-33
Ruaben, Ittalo J.	Shaughnessy	22	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Ruffee, Harry G.	Nacmine	204	9- 7-35
Runge, William	Rosalind	34	26- 7-45
Ruscoe, Richard	Halkirk	282	26- 6-19
Russell, Arthur	Standard	59	5-12-14
Russell, John	Mitford	67	20- 1-15
Russell, Robert	Alix	69	25- 6-32
Russell, William C.	Drumheller	765	24-11-28
Rutherford, Leslie D.	Saunders	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Ryning, James W.	Rowley	383	4- 7-39
Salmund, James M.	Bankhead	6	20-12-05
Salus, Andrew P.	Coleman	110	11- 7-53
Samis, Kenneth E.	Namoo	402	18-10-39
Samis, Stewart M.	Namoo	34	16- 7-49
Sandino, Joseph	Bellevue	238	31- 7-13
Sarsfield, William	East Coulee	273	27- 8-37
Sartore, Lucien	Mercoale	101	18- 7-47
Saunders, Herbert A.	Cardiff	76	2- 7-32
Saunt, James	Edmonton	309	26- 7-20
Saville, James	Midlandvale	56	19- 7-50
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Schlender, Otto	Trochu	118	6- 7-33
Schmidt, O. P.	Edmonton	44	1- 2-08
Schneider, Nick	Dimsdale	197	28- 6-35
Schnepf, Karl J.	Rosebud	6	2- 8-40
*Schon, Karl	Edmonton	140	13- 7-48
Schymizek, John	Bright Bank	302	22- 6-38
Scott, Alexander	Pocahontas	185	28-11-11
Scott, Andrew N.	Edmonton	28	23- 5-07
*Scott, Frederick G.	Nordegg	287	2- 9-19
*Scott, Hugh	Lethbridge	8	5- 6-99
Scott, J. D.	Rosedale	722	7- 6-29
Scott, Robert	Lethbridge	6	19-12-98
*Scott, Robert	Mountain Park	399	1- 8-21
Sedlock, Joseph	Canmore	22	25- 6-03
Semeniuk, Steve	Shaughnessy	58	20- 7-43
Senycz, John J.	Bellevue	84	18- 7-47
Sernecky, Mike	Alexo	54	19- 7-50
Serrie, John	Taber	353	26- 7-20
Severns, Matthew	Montana (duplicate)	621	11- 5-26
Shandruk, Henry K.	Edmonton	695	16- 8-28
Shanks, David	Nordegg	46	19- 7-50
Sharretta, John	Blairmore	55	20- 7-46
Shaw, Eli	Canmore	229	30- 4-13
Shaw, John H.	Nordegg	426	1- 8-21
Shaw, Joseph H.	Nordegg	416	1- 8-21
Shaw, Robert	Coleman	226	22- 6-36
Shaw, Thomas J.	Canmore	113	3- 6-10
Shaw, Tom	Bellevue	202	18- 4-18
Shaw, William G.	Nordegg	469	1- 8-21
Shearer, J. C.	Rosedale	749	9- 8-29
*Shearer, Peter	Cadomin	640	22- 9-26
Shellian, Andrew F.	Canmore	11	16- 7-45
Shephard, W. L.	East Coulee	92	20- 7-44
Shepherd, George E.	Wayne	477	1- 8-22
Sheridan, Daniel	Lacombe	296	11- 6-38
Sheratt, Owen Sr.	Coleman	199	13- 7-12
Sherwood, Harry R.	Canmore	751	8- 8-29
Shevels, John	Bellevue	523	17- 8-23
Shields, Alexander M.	Midlandvale	10	16- 7-49
Sihvon, William	Bellevue	27	17- 5-07
Sikora, John Jr.	Coleman	68	29- 7-46
Simla, Joe	Coleman	10	16- 7-45
Simmons, Efner W.	Forestburg	611	25- 7-25
Simons, B.C.	Bellevue	36	26- 7-31
Simpson, Edward	Edmonton	300	22- 6-38
Simpson, Frank	Nacmine	206	22- 7-35
Sinclair, James	Drumheller	68	22- 1-15
Singleton, Robert	Lundbreck	47	29- 5-08
Sinoski, Mike	Edmonton	791	14- 6-30
Sinoski, Steve	Edmonton	252	11- 6-37
*Sippell, Joseph	Drumheller	295	1-12-19
Sirko, Tibor	Rosedale	319	21- 7-38
Sladek, Anton Jr.	Rosedale	90	18- 7-44
Sladek, Henry	Rosedale	53	19- 7-46
Small, Samuel	Luscar	118	13- 7-48
Smillie, John	Drinnan	152	9- 6-34
Smillie, Walter	Evansburg	772	4- 6-30
Smith, A. J. P.	Bellevue	103	21- 2-10
Smith, Andrew A.	Drumheller	522	17- 8-23
Smith, Charles E.	Rosebud	396	12- 9-39
Smith, Harry	Drumheller	338	21-10-38
Smith, Hugh	Canmore	35	5-12-04
Smith, James	Wayne	211	10- 8-35

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Smith, James	Nordegg	9	3- 8-40
Smith, James H.	Beverly	128	13- 7-48
Smith, John	Blairmore	94	1- 9-15
Smith, John A.	Cadomin	31	13- 7-31
Smith, Peter	Coleman	718	7- 6-29
Smith, Ralph	Canmore	3	30- 5-06
Smith, Robert	Canmore	32	5-12-04
Smith, Sydney L.	Drumheller	552	1-11-23
Smith, T. Edwin	Yetwood	130	26- 7-16
Smith, Terence	Edmonton	646	1- 8-27
Smith, Thomas	Hillcrest	216	1-11-12
Smith, Thomas	Coleman	307	26- 7-20
Snarey, George	Taber	62	5-12-14
Sneddon, Thomas	Taber	444	3- 4-22
Snow, Percy E.	Lethbridge	729	7- 6-29
Sorro, Christopher	Blairmore	203	18- 4-18
Sparrow, Edwin	Frank	2	20-12-05
Speaker, Pete A.	Calgary	489	1- 9-22
Spencer, Murray A.	Lovett	43	18- 9-14
Spencer, W. J.	Bankhead	51	6- 7-05
Spensley, Thomas Jr.	Drumheller	68	16- 7-51
* Sprella, Martin	Willow Creek	163	19- 6-34
Staite, Albert E.	Trochu	56	20- 7-43
Stanko, Martin	Drumheller	13	13- 7-31
Stanley, Henry	Nacmire	615	1- 8-25
Steele, Francis M.	Pincher Creek	319	26- 7-20
Steele, John W.	Lethbridge	17	16- 3-14
Seen, Alf C.	Rosedale	398	16- 9-39
Steen, Herman	Hanna	277	26- 6-19
Stene, Alexander	Cadomin	10	13- 7-31
Stene, David	Edmonton	430	29- 8-21
Stene, Wm. V.	Cadomin	88	17- 7-44
Stephenson, Joseph	Commerce	232	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Steven, Robert	Banff	701	22- 8-28
Stevenson, Morris	Drumheller	218	25- 9-35
Stevenson, Robert	Drumheller	757	25- 3-30
Steward, Frederick G.	Drumheller	624	26- 7-26
Stewart, George W.	Nordegg	677	16- 1-28
Stewart, James	Lethbridge	305	26- 7-20
Stewart, James Jr.	Lethbridge	120	13- 7-48
Stewart, James M. Jr.	Nordegg	281	7- 3-38
Stewart, R. E.	Shaughnessy	802	18-10-30
Stobbs, Joseph	Diamond City	217	5-11-12
Stocco, Reno	Drumheller	31	23- 7-45
Stott, John	Lethbridge (duplicate)	231	7- 4-13
Strachan, John	Fernie, B.C.	437	29- 8-21
Strader, Donald M.	Gadsby	108	18- 7-47
Strang, David	Mountain Park	746	23- 7-29
* Stratton, Andrew T.	Redcliffe (duplicate)	329	7- 9-38
Stratton, James M.	Taber	181	25- 7-17
* Stratton, Robert	Langford Park	22	17- 7-45
Strecker, John	Rosedale	29	20- 7-45
Strecker, William	Rosedale	93	14- 7-52
Streich, Paul	Ardley	202	8- 7-85
Strickland, William	Evansburg	145	5- 7-17
* Studholme, John H.	Dinant	559	18-12-23
Surrendi, Nick	Wayne	73	14- 7-44
Susnar, Alexander	Kaydee	52	18- 7-46
* Sutherland, E. S.	Beverly	395	1- 8-21
Sutherland, S. R.	Bellevue	782	10- 6-30
Swan, Harry	Priddis	307	22- 6-38
Swanston, Matthew	East Coulee	392	1- 9-39
Sward, Henry	Rose Lynn	104	10- 6-33
Tait, Burton	Edmonton	1	16- 7-45
Talbot, Walter J.	Clover Bar	533	17- 8-23
Talbot, William	Drumheller	235	22- 6-18
Tamborini, Bruno	Bellevue	20	16- 7-45
Tannucci, Joseph	Nordegg	485	1- 8-22
Taylor, Edward	Groton	154	9- 6-34
Taylor, John	Drumheller	649	1- 8-27
Taylor, Robert	Calgary	85	24- 8-32
* Taylor, Thomas	Lundbreck	30	23- 5-07
Taylor, William	Lethbridge	10	16- 4-01
Taylor, William	Midlandvale	514	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
* Tennant, James	Mountain Park	358	8- 6-39
Tennant, John	Lethbridge	165	10- 7-17
Tennant, Robert	Lethbridge	84	19- 8-15
Tennant, William G.	Lethbridge	228	8- 6-18
* Teppo, Herman	Bellevue	19	3- 1-07
Terris, Andrew	Nordegg	170	17- 7-17
* Terris, Chapen	Saunders	429	1- 8-21
Thackray, Fred	Taber	281	26- 6-19
Thirlwell, William	Robb	4	20- 2-31

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
*Thom, George	Pocahontas	142	12-12-16
*Thomas, David	Bankhead	31	5-12-04
Thomas, David R.	Ryley	241	6-11-36
Thomas, David R.	Luscar	379	4- 7-39
Thomas, David S.	Midlandvale	55	21- 3-32
Thomas, Edward J.	Drumheller	706	24-11-28
Thomas, Isaac	Coleman	204	27- 7-12
Thomas, John B.	Edmonton	46	19-11-14
Thomas, John J.	Frank	74	21- 4-09
*Thomas, Joseph D.	Frank	81	25- 8-09
Thomas, William	Luscar	38	26- 7-31
Thomason, Charles	Michel, B.C.	234	14- 6-18
Thompkins, David F. R.	Foothills	659	1- 9-27
Thompson, Andrew	Aerial	267	26- 6-19
Thompson, John W.	Drumheller	274	1- 9-37
Thompson, Joseph	Coleman	165	17-11-11
Thompson, Thomas	Lundbreck	16	3- 1-07
Thompson, Thomas	Coleman	93	29-11-09
Thomson, Alexander	Edmonton	141	5- 6-34
Thomson, David	Lovett	82	19- 8-15
Thomson, George H.	Lethbridge	433	29- 8-21
Thomson, James	Beverly	425	1- 8-21
Thomson, John	Edmonton	758	4- 6-30
Thomson, John D.	Drinnan	360	8- 6-39
Thomson, Roger A.	Lovett	66	22-12-14
Thomson, Thomas W.	Bankhead	161	17-11-11
Thomson, Walter	Clover Bar	628	26- 7-26
Thomson, William	Edmonton	683	1- 8-28
Thornhill, John E.	Coalhurst	482	1- 8-22
Tiberg, Alrik N.	Blairmore	38	17- 7-42
Tiberghiem, A. J.	Coleman	264	23- 6-37
Tiffin, Richard	Coleman	188	10- 6-35
Tilley, John C.	Bellevue	511	30- 6-23
Timm, Paul	Willow Creek	77	23-10-46
*Tinsley, Albert J.	Rosedale	381	4- 7-39
Tisdale, James R.	Nordegg	231	8- 6-18
Tomsich, John	Mercoal	18	16- 7-45
Tonge, Reginald	Blairmore	90	30- 9-32
Tonge, Thomas	Lundbreck	5	30- 5-06
Topak, Peter	Coleman	55	14- 7-43
Travis, Joseph	Bankhead	303	26- 7-20
Trembecky, Robert	Rosedale	102	14- 7-52
Trentham, Albert	Three Hills	89	6- 3-52
Trentham, Harry	Ghost Pine	536	17- 8-23
Treventhin, Mark	Wayne	305	22- 6-38
*Troman, Samuel	Lethbridge	87	26- 8-15
Tucker, John M.	Entwistle	528	17- 8-23
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, Leonard	Nordegg	125	19- 7-16
Turner, Samuel H.	Frank (duplicate)	22	8- 5-07
Turner, William	Hillcrest	244	31- 7-13
Turner, William A.	Halcourt	262	23- 6-37
Turner, William H.	Blairmore	525	17- 8-23
Tyldsley, Albert	Beverly	545	1- 9-23
Tyrer, Edward	Lethbridge	5	13- 7-31
Tyrer, Harold	Lethbridge	70	25- 6-32
Tyrluk, Joseph	Heisler	79	16- 7-51
Unsworth, George	Scapa	399	12-10-39
*Unsworth, Robert J.	Scapa	704	24-11-28
Urwin, Henry	Canmore	123	29- 7-33
Urwin, James	Coleman	95	28- 7-44
Utlley, Frederick W.	Bellevue	250	26- 6-19
Valentini, Marcelli	Bow Island	309	22- 6-38
Vanbesien, Jules	Champion	366	22- 6-39
Van De Kinder, Maurice F.	Cambria	61	24- 7-46
Van Duncombe, Walter	Taber	394	12- 9-39
Vannucci, Luigi	Brule	629	26- 7-26
Van Schoorl, August	Coleman	228	22- 6-36
Vasek, Louis M.	Coleman	6	16- 7-45
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	16- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vining, Samuel	Luscar	635	30- 7-26
Vitaly, Mike L.	Namao	351	8- 6-39
Vivyrka, John	Mercoal	44	26- 7-31
Vola, Serafino	Canmore	63	1- 2-09
Voynovich, Rade	Robb	104	18- 7-47
Vredik, John	Rosedale	103	14- 7-52
Waddington, Daniel M.	Coleman	259	23- 6-37
Waggoner, Bernard	East Coulee	7	16- 7-49
Waite, Archibald	Taber	11	6- 7-03
Wakaruk, George	Newcastle	67	26- 7-46
Wakaruk, (Walker), John J.	Newcastle	48	20- 7-42
Wales, Harry	St. Albert	141	13- 7-48
Walker, Charles C.	Wayne	385	1- 8-21
Walker, H. M.	Bellevue	368	26- 7-20
Walker, Ian M.	Blairmore	89	18 -7-47

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Walker, William	Newcastle	66	26- 7-46
Waller, Herbert	Natal, B.C.	562	28-12-23
Wallwork, William	Taber	118	10- 7-16
Walsh, James C.	Bellevue	34	13- 7-31
Walton, George A.	Forestburg	67	25- 6-32
Wardrop, James	Georgetown	72	16- 2-15
Warneboldt, Julius	Sheerness	658	1- 9-27
Warren, Ernest H.F.	Vauxhall	91	17- 3-52
Warren, Michael	Canmore	304	26- 7-20
Watkin, George E.	Bittern Lake	59	2- 6-32
Watkins, James M.	Taber	128	26- 7-16
Watkins, John W.	Canmore	3	15-11-98
Watkins, W. E.	Canmore	1	14-11-98
Watson, Adam G.	Calgary	215	1- 6-18
Watson, David	Leduc	77	11- 7-32
Watson, James	Edmonton	378	1- 8-21
Watters, A. G.	Bankhead	49	29- 5-08
Watters, David G.	Drumheller	120	29- 7-33
Watters, John	Bankhead	5	20-12-05
*Watters, John J.	Edmonton	12	19- 9-40
Weaver, William	Natal, B.C.	530	17- 8-23
Webb, James F.	Canmore	42	8- 4-05
Welsh, William R.	Lundbreck	9	3- 1-07
Wesledge, William	Nordegg	58	5-12-14
Westcott, Henry M.	Wayne	651	1- 8-27
Weston, Thomas	Strathcona	73	7- 4-09
Wheat, Kenneth C.	Mercoal	5	16- 7-49
Wheatcroft, Fred Jr.	Drumheller	225	8- 6-18
Wheatcroft, George L.	Wayne	394	1- 8-21
Wheatley, Frank M.	Blairmore	599	20- 7-25
Wheatley, James W.	Banff	276	4-10-37
Wheeler, Albert	Clyde	282	24- 3-38
Whelan, Charles J.	Newcastle	556	4-12-23
White, Alfred	Hillcrest	389	1- 8-21
White, George	Nordegg	83	24- 8-32
White, Harry	Frank	90	29-11-09
White, Harry J.	Coalhurst	677	19- 7-28
White, James B.	Nordegg	102	24-10-44
White, John	Nordegg	210	10- 8-35
White, John M.	Lethbridge	233	14- 6-18
White, Michael	Drumheller	806	29-10-30
White, Mike	Wayne	27	20- 7-45
White, Robert	Nordegg	411	1- 8-21
White, William	Hillcrest	388	1- 8-21
White, William	Coleman	427	1- 8-21
White, William A.	Hillcrest	77	16- 7-51
Whitefield, Isaac	Coalhurst	15	10- 3-14
Whitehead, John G.	Drumheller	60	24- 7-46
Whitehead, J. W.	Lethbridge	712	7- 6-29
Whitelaw, William	Blairmore	532	17- 8-23
Whittaker, William C.	Coleman	643	25- 5-27
Whyte, David	Pipestone Creek	253	11- 6-37
Whyte, William	Lethbridge	446	16- 6-22
Wilcox, William J.	Beverly	140	11-11-16
Wilkie, John	Sheerness	405	1- 8-21
Wilkinson, James	Bragg Creek	116	3- 7-33
Willets, Frederick	Lethbridge	162	10- 7-17
Willets, Norman	Hillcrest	571	24- 7-24
Williams, Albert	Beverly	138	25- 9-16
Williams, D. J.	Mountain Park	35	13- 7-31
Williams, H. A.	Mountain Park	792	3- 7-30
Williams, Hugh	Nordegg	577	1- 8-24
Williams, John	Barnwell	161	16- 6-34
Williams, John J.	Bickerdike	223	25-11-12
Williams, John T.	Bellevue	33	23- 5-14
Williams, L. A.	Edmonton	768	4- 6-30
Williams, Walter	Alix	29	13- 7-31
Williams, Walter E.	Clover Bar	213	31-10-12
Williams, William	Barnwell	87	23- 9-32
Williamson, David S.	Camrose	558	18-12-23
Williamson, John B.	Cadomin	473	31- 7-22
Willmott, William	Canmore	38	10- 1-08
Wilson, Alexander	Drumheller	169	17- 7-17
Wilson, Charles	Lethbridge	130	8- 9-33
Wilson, John	Canmore	2	15-11-98
Wilson, Samuel	Drumheller	639	20- 8-26
Wilson, Samuel G.	Cadomin	123	13- 7-48
Wilton-Clark, Harry	Coleman	3	20-12-05
Wiltse, Donald H.	Coleman	594	20- 7-25
Wiltse, Floyd N.	Forestburg	688	1- 8-28
Wisla, Martin	Forestburg	125	29- 7-33
Wisla, Michael	Hillcrest	100	18- 7-47
Wiswell, Byron	Hillcrest	90	18- 7-47
Withington, Harry E.	Blairmore (duplicate)	637	6- 8-26
	Newcastle	664	14-10-27

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Wojtula, Emil J.	Hillcrest	69	16- 7-51
Wolff, Alfred	Willow Creek	387	12- 8-39
Wollney, Karl	Bellevue	681	1- 8-28
Wolstoncroft, Robert	Commerce	175	17- 7-17
Womersley, Alfred	Redcliff	316	26- 7-20
Womersley, E.	Blairmore	783	10- 6-30
Wood, Matthew	Bellevue	508	17- 5-23
Woods, Robert W.	Wabamun	91	18- 7-47
Woodward, Clarence	Bellevue	94	16- 2-33
Wollett, Charles	Edmonton	379	1- 8-21
Worthington, Thomas	Lethbridge	92	1- 9-15
Worthington, Willard T.	Edmonton	75	22-10-46
Wright, Albert	Mountain Park	109	18- 7-47
*Wright, John S.	Canmore	12	3- 1-07
Wright, S. P. T.	East Coulee (duplicate)	243	1- 2-37
Wrigley, Walter	Frank	37	10- 1-08
Wukusich, John A. S.	Lethbridge	117	13- 7-48
Wylie, James	Commerce	520	17- 8-23
Wyrostok, George	Shaughnessy	51	19- 7-50
Yard, Lloyd G.	Trochu	373	22- 6-39
Yarham, John I.	Forestburg	321	8- 8-38
Yates, James	Coleman	504	15- 2-23
Yohnke, Francis L.	Mercoal	101	14- 7-52
Yorke, Simon A.	Shaughnessy	345	8- 6-39
Young, Albert	Foreman	159	16- 6-34
Young, Charles	Newcastle	278	10-11-37
Young, David B.	Blairmore	581	25- 9-24
Young, John	Drumheller	214	29- 8-35
Young, Robert	Newcastle (duplicate)	788	14- 6-30
Young, Samuel	Cardiff	101	18- 1-10
Young, Thomas	Taber	57	11- 1-09
Young, Warren	Wayne	216	30- 8-35
Zak, Albert	Commerce	324	26- 7-20
Zambo, Joseph	Aerial	292	10- 6-38
Zaputil, Frank W.	Rosedale	397	12- 9-39
Zayezierski, Casey	Luscar	17	16- 7-49
Zboya, Peter S.	Canmore	35	16- 7-49
Zemek, Joseph	Frank	82	18- 7-47
Zieffle, Gordon	Medicine Hat	97	14- 7-52

* Deceased

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Adam, William A.	Lethbridge	40	21- 8-15
*Allen, Peter	Coleman	109	23-11-15
Ashburner, Edward	Edmonton	79	1- 9-15
Aspinall, Francis	Calgary	1	7- 8-15
Atkins, Cecil B.	Evansburg	162	17- 7-23
Baxter, Andrew W.	Lethbridge	119	23-11-15
Belik, Ernest	Coleman	23	11- 7-53
Billington, Edward E.	Coleman	42	23- 8-15
Bilterynt, Jean	Taber	73	1- 9-15
*Black, Ernest D.	Sewell, Man.	75	1- 9-15
Blasetti, Angelo	East Coulee	28	12- 7-54
Brown, David T.	Blairmore	6	18- 7-47
Brown, Hugh R.	Commerce	125	10- 7-16
Brown, John	Calgary	30	20- 8-15
Brown, John D. B.	Blairmore	8	18- 7-47
Brown, Thomas	Edmonton	133	17-11-17
Buesnel, Phillip R.	Calgary	5	19- 8-50
Burgess, Wilfred D.	Edmonton	169	18-12-23
Burton, John T.	Rosedale	24	11- 7-53
*Callander, Ira C.	Pocahontas	39	21- 8-15
Cameron, Alan E.	Edmonton	154	9- 3-21
Carthew, John T.	Brule	164	17- 7-23
Cautley, Reginald H.	Edmonton	81	1- 9-15
Charbonnier, Jules	Blairmore	72	1- 9-15
Charlesworth, Lionel C.	Edmonton	22	7- 8-15
Chavignaud, Louis G.	Luscar	165	17- 7-23
Church, James A. H.	Edmonton	21	7- 8-15
Clement, Adolph L.	Calgary	158	1- 8-21
Clyburn, Norman S.	Cadomin	3	16- 7-49

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Congdon, Milton H.	Blairmore	157	1- 8-21
Cook, Arnold B.	Taber	113	23-11-15
*Cote, Jean L.	Edmonton	80	1- 9-15
Coulthard, Robert W.	Calgary	20	7- 8-15
Crawford, Alexander	Edmonton	11	13- 7-48
Crawford, John	Edmonton	4	18- 7-46
*Crowder, Harry	Drumheller	152	26- 7-20
*Crowder, James	Three Hills	111	23-11-15
Cumming, Charles H.	Brule	135	3- 7-18
D'Amico, Zupito	Nordegg	7	19- 7-50
Daniell, G. W. B.	Coleman	126	10- 7-16
*Darbyshire, James	Drumheller	69	1- 9-15
*Davidson, W. A.	Coleman	7	7- 8-15
Davis, Alfred	Lethbridge	114	23-11-15
DeHart, Joseph B.	Coalhurst	45	23- 8-15
Dennis, Frederick W.	Bow City	100	9- 9-15
Dewis, Clifford S.	Canmore	163	1- 8-22
Donaldson, Adam G.	Lethbridge	4	6- 8-43
Donaldson, C. S.	Lethbridge	151	26- 7-20
*Dougall, Ralph	Bankhead	49	23- 8-15
Draper, Ralph J.	Bellevue	16	14- 7-52
*Drinnan, Robert G.	Hillcrest	8	7- 8-15
Drinnan, R. G. Jr.	Edmonton	181	8- 8-30
*Driscoll, Alfred	Edmonton	91	7- 9-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Duggan, William H.	Beverly	84	1- 9-15
*Dunn, Alex C.	Edmonton	55	23- 8-15
Dunn, Robert A.	Edmonton	16	13- 7-48
Dunn, Robert A.	Midlandvale	18	14- 7-52
Dutton, Joseph A.	Edmonton	3	30- 7-45
Dwarkin, L. M.	Coleman	2	30-10-41
Elliott, Edward P.	Pocahontas	33	20- 8-15
Elliott, G. R.	Canmore	150	26- 7-20
Ellis, William	Champion	94	7- 9-15
Erikson, Robert G.	Mercoal	11	16- 7-51
Evans, Daniel	Edmonton	123	29-12-15
Finnie, Oswald S.	Edmonton	57	23- 8-15
Flint, William G.	Canmore	76	1- 9-15
Foot, Robert G.	Coleman	54	23- 8-15
Fortner, Edward	Rocky Mountain House	83	1- 9-15
Foster, William	Wabamun	167	1- 9-23
*Fraser, A. T.	Edmonton	121	18-11-15
Fraser, Arthur A.	Coleman	8	2- 9-37
*Fraser, Norman	Edmonton	15	7- 8-15
French, Merritt H.	Calgary	3	22- 8-33
Gallon, Emile	Bellevue	89	7- 9-15
Gardner, H. H.	Coleman	180	23- 7-29
*Gheur, Ernest	Nordegg	129	22- 2-17
Glover, James R.	Bellevue	8	19- 7-50
Graham, A. E.	Coleman	168	15- 9-23
Gray, David	Wayne	110	23-11-15
Green, Raoul	Blairmore	70	1- 9-15
Hall, W. E. G.	Coleman	143	2- 7-19
Halldorson, Arni S.	Hillcrest	9	19- 7-50
Hamilton, Allan	Blairmore	131	7- 7-17
Hamilton, Duncan C.	Drumheller	10	1-10-38
Hamilton, James F.	Lethbridge	56	23- 8-15
Hamilton, Robert	Redcliff	74	1- 9-15
*Hamilton, W. L.	Passburg	117	23-11-15
*Hardie, W. D. L.	Lethbridge	50	23- 8-15
*Hargreaves, James	Drumheller	52	23- 8-15
*Harrison, Stephen	Lethbridge	85	1- 9-15
Henderson, Thomas R.	Tofield	67	1- 9-15
Hetherington, W. B.	Calgary	144	9- 7-19
Hewitt, Herbert E.	Blairmore	6	6- 8-36
Higgins, Alexander	Calgary	145	15- 7-19
Hnatyshyn, Andrew C.	Blairmore	171	24- 7-24
Hodson, Thomas H.	Nordegg	1	16- 7-45
*Holden, James O. E.	Drumheller	46	23- 8-15
Hollies, R. T.	Edmonton	153	9- 3-21
Horne, James	Edmonton	27	12- 7-54
Horne, Thomas	Castor	82	1- 9-15
Howells, N.	Lethbridge	160	3-11-21
Hughes, Edward	Calumet, U.S.A.	174	25- 9-24
*Hunter, Alexander B.	Wabamun	156	1- 8-21
*Huntrods, E. S. F.	Taber	34	20- 8-15
Hutchison, David	Hillcrest	29	20- 8-15
Hutchison, William	Hillcrest	68	1- 9-15
Hyde, Marcus L.	Evansburg	95	7- 9-15
*Johnson, Moses F.	Lethbridge	130	7- 7-17
Jones, David	Edmonton	32	20- 8-15

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Jones, John R. B.	Hinton	5	1- 8-36
*Jones, Samuel A.	Edson	26	19- 8-15
*Kellett, Walton	Lethbridge	47	23- 8-15
*Kellock, George	Coleman	105	23-11-15
Kelly, O. G.	Carbondale	2	29- 7-33
Kidd, G. L. S.	Calgary	132	10-10-17
*Knight, R. R.	Edmonton	96	9- 9-15
Knight, Sidney	Edmonton	122	3-12-15
Lavoie, G. A.	Frank	44	23- 9-15
*Leblanc, Emile	Taber	107	23-11-15
*Lee, Robert J.	Elcan, Sask.	64	1- 9-15
Lewis, John W.	Edmonton	159	10-10-21
Lindoe, Luke	Bellevue	136	3- 7-18
*Livingstone, Robert	Lethbridge	9	7- 8-15
Livingstone, Robert D.	Lethbridge	11	25- 7-39
Lyster, H. M.	Bankhead	77	1- 9-15
*Marsh, John	Taber	124	4- 4-16
Marshall, J. W.	Evansburg	106	23-11-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Meldrum, William	Lethbridge	98	9- 9-15
Melnyk, N.	Cadomin	182	10- 9-30
Millar, A. A.	Lovettville	97	9- 9-15
Millen, John	Nordeg	172	24- 7-24
*Mills, Harry W.	Bankhead	52	7- 9-15
Milne, M. C.	Edmonton	78	1- 9-15
Moodie, K. S.	Drumheller	101	9- 9-15
Moore, H. D.	Nordeg	149	26- 7-20
Morgan, Evan H.	Blairmore	3	14- 7-43
Morgan, Owen	Saunders (duplicate)	5	4- 5-45
Morgan, T. E.	Hillcrest	183	29-10-30
*Morris, J. J.	Canmore	14	7- 8-15
Morris, R. H.	Pocahontas	17	7- 8-15
Morris, William	Edmonton	12	1- 8-39
Macaulay, A. G.	Coleman	41	23- 8-15
*Macaulay, D. A.	Drumheller	60	31- 8-15
MacDonald, Donald A.	Taber	6	19- 7-50
McConnell, Edward W.	Edmonton	4	16- 7-49
McCulloch, James	Drumheller	104	23-11-15
McDonald, Duncan	Hardieville	118	23-11-15
*McDonald, John R.	Frank	128	22- 2-17
McIntyre, John F.	Coleman	15	16- 7-51
McKinnon, Donald F.	Cadomin	7	18- 7-47
McLenhan, J. A.	Edmonton	37	21- 8-15
*McLeod, John A.	Edmonton	35	20- 8-15
*McMullen, Arthur	Nordeg	1	26- 7-31
McNeill, W. F.	Calgary	6	7- 8-15
*McVicar, Samuel	Beaver Mines	120	23-11-15
Neumann, Theodore O.	Cadomin	15	13- 7-48
*O'Donnell, Thomas	St. Albert	102	9- 9-15
Olynek, Edward	Me'coal	19	14- 7-52
Panchuk, Fred	Cadomin	10	13- 7-48
Panchysyn, Edward J.	Blairmore	12	13- 7-48
*Parker, John L.	Canmore	11	7- 8-15
Pascoe, Thomas	Calgary	178	1- 8-27
Piard, Marc	Bellevue	88	7- 9-15
Pickles, William	Edmonton	24	18- 8-15
Pitcher, Norman C.	Edmonton	10	7- 8-15
Platt, John	Calgary	2	16- 7-49
Ponton, G. M.	Calgary	63	1- 9-15
Potter, Idwal N.	Drumheller	25	12- 7-54
Powell, A. E.	Wabamun	108	23-11-15
Pozzi, Dante	Bellevue	17	14- 7-52
Pratt, John C.	Coleman	4	22- 7-35
*Puckett, O. L.	Lovett	31	20- 8-15
Pullen, Peter F.	Alexo	14	13- 7-48
Quigley, Daniel H.	Coalthurst	142	2- 7-19
Raisbeck, Luke	Grassy Lake	103	23-11-15
Reid, A. H.	Commerce	62	1- 9-15
Reid, J. C.	Lethbridge	12	7- 8-15
Rhynas, Melville G.	Fincher Creek	9	1-11-37
*Richards, C. C.	Commerce	43	23- 8-15
*Richards, J. A.	Calgary	13	7- 8-15
Richards, M. C. Russell	Edmonton	166	15- 9-23
Riddell, J. G.	Coleman	147	26- 7-21
Ritchie, D. W.	Edmonton	134	28- 6-18
Riva, Walter, J.	Canmore	13	13- 7-48
Robert, L. P.	Blairmore	65	1- 9-15
Robertson, J.	Drumheller	61	1- 9-15
*Robertson, J. D.	Edmonton	23	7- 8-15
Robinson, W. E.	Coleman	139	11- 7-18
Scott, Andrew	Luscar	2	16- 7-45

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Scott, A. N.	Pocahontas	36	20- 8-15
Shanks, David	Calgary	161	3- 4-22
*Shanks, John	Calgary	58	28- 8-15
Shaw, Norman	Edmonton	170	16- 7-24
Shaw, Robert	Stettler	13	16- 7-51
*Shaw, William	Blairmore	25	19- 8-15
Sherwin, P. M.	Frank	127	22- 1-17
Skierkowski, Roman	Coleman	20	14- 7-52
Smith, David	Robb	21	11- 7-53
*Smith, Frank B.	Edmonton	3	7- 8-15
Smith, Terence	East Coulee	1	16- 7-49
Smith, T. E.	Coalhurst	137	3- 7-18
Sparks, H. E.	Brule	155	1- 8-21
Squire, Ronald E.	Luscar	12	16- 7-51
Steele, F. M.	Pincher Creek	146	23- 3-20
Stevens, Leonard C.	Edmonton	66	1- 9-15
Stevenson, J.	Hardieville	116	23-11-15
Stevenson, William Jr.	Nordegg	59	31- 8-15
*Stewart, R. T.	Ardley	173	11- 8-24
*Stirling, John T.	Edmonton	19	7- 8-15
*Stockett, Lewis	Calgary	2	7- 8-15
Sutherland, C. C.	Edmonton	86	3- 9-15
*Thomas, Joseph D.	Passburg	115	23-11-15
Thorne, B. L.	Calgary	18	7- 8-15
*Thornton, Norman M.	Edmonton	16	7- 8-15
*Turner, John H.	Coalhurst	141	2- 7-19
Usher, Charles V.	Canmore	10	19- 7-50
Utley, Frederick W.	Bellevue	177	26- 7-26
*Wain, W. Holt	Canmore	4	7- 8-15
*Wark, Samuel D.	Evansburg	99	9- 9-15
Watson, R. H.	Mountain Park	53	23- 8-15
Watters, John	Bankhead	87	3- 9-15
Wheeler, James S.	Calgary	112	23-11-15
Whigham-Teasdale, James R.	Drumheller	7	18- 8-37
*Whiteside, O. E. S.	Coleman	27	19- 8-15
Whittaker, William C.	Coleman	179	6- 8-27
Wieckowski, Mieczslaw	Coleman	14	16- 7-51
Williams, A. E.	Bellevue	38	21- 8-15
Williams, T. E.	Canmore	48	23- 8-15
*Williams, W. P.	Bellevue	71	1- 9-15
Wilson, Andrew	Rosedale	1	19- 7-41
*Wilson, D. G.	Bankhead	5	7- 8-15
Wilson, William	Clover Bar	176	14- 8-25
Wilson, W. R.	Fernie, B.C.	90	7- 9-15
Wilton-Clark, Harry	Coleman	175	20- 7-25
Worthington, Willard T.	Edmonton	9	18- 7-47
Wright, Edwin	Bankhead	138	11- 7-18
Young, David B.	Bellevue	5	24- 9-46
*Young, W. H.	Calgary	28	19- 8-15
Zieffle, Gordon	Medicine Hat	22	11- 7-53

*Deceased.

LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Anderson, Julius	Wayne	87	10- 9-40
Angelo, Steve	Drumheller	88	10- 9-40
Arndt, Joseph H.	Drumheller	61	30- 9-39
Auger, Norman L.	Nacmine	25	12- 7-54
Bailey, Edwin T.	Carbondale	124	8-11-44
Barraud, Charles A.	Nordegg	120	12- 7-44
Barrell, William	Ardley	101	14-11-40
Basso, Joseph	Cadomin	123	8-11-44
Beaton, George M.	Luscar	116	15-10-42
Belenky, William S.	Canmore	21	11- 7-53
Bell, Harold	Lethbridge	39	30- 9-39
Belley, Thomas	Mountain Park	76	24- 1-39
Berlando, Tully	Aerial	49	30- 9-39

THE MINES DIVISION

LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Biamonte, Antonio	Clover Bar	1	25- 9-39
Blake, Gwilym	Blairmore	29	30- 9-39
Blas, Emile	Blairmore	28	30- 9-39
Brenton, David J.	Drumheller	12	19- 7-50
Broderick, Gideon	Canmore	14	30- 9-39
Brotherston, Robert A.	Clover Bar	2	25- 9-39
Brown, Hugh R.	Carbon	95	12- 9-40
Bucholtz, Robert C.	Redcliff	98	16- 9-40
Burch, George	Shaughnessy	107	29- 9-41
*Buzenus, Christopher	Drumheller	51	30- 9-39
Callan, Lawrence	Cadomin	78	21-11-39
Carledge, Harold L.	Edmonton	67	4-11-39
Carr, Gordon P.	Sheerness	22	11- 7-53
Chapman, James R.	Alexo	84	25- 5-40
Chriasty, John A.	Blairmore	7	19- 7-50
Clark, James	East Coulee	59	30- 9-39
Conlin, Lloyd R.	East Coulee	10	13- 7-48
Conlin, Richard	Drumheller	50	30- 9-39
Craig, Andrew	Nacmine	91	11- 9-40
Devonshire, George H.	Canmore	15	30- 9-39
Dibblee, Edwin W.	Coleman	26	30- 9-39
Dolanz, Iggy	Three Hills	82	5-12-39
Dolanz, Steve	Three Hills	81	5-12-39
Dore, Vincent F.	Coal Valley	70	20-11-39
Dutfield, George	Mercoal (duplicate)	14	26- 7-50
Edwards, Mark	Entwistle	100	14-11-40
Finlayson, John C.	Robb	102	15-11-40
Ford, John C.	Drumheller	53	39- 9-39
Fox, Alfred	Carbon	83	5-12-39
Fraser, James	Coleman	31	30- 9-39
Freypons, John	East Coulee	60	30- 9-39
Gidman, Joseph H.	Taber	40	30- 9-39
Gilchrist, J. N.	Wabamun	5	25- 9-39
Gitzel, Edward S.	Luscar	7	18- 7-47
*Godfrey, Wiley R.	Coleman	18	30- 9-39
Grant, Alexander	Rosedale	47	30- 9-39
Gregor, Victor	Bellevue	17	30- 9-39
Grover, Henry	Calgary	16	30- 9-39
Gustason, Oxyll G.	Canmore	15	16- 7-51
Hallworth, Frederick W.	Bellevue	23	30- 9-39
*Hansen, Knud	Midlandvale	55	30- 9-39
Harvey, Edward N.	Rosedale	16	16- 7-51
Heidel, H. S.	Priddis	117	12-11-43
Henderson, John R.	Nacmine (duplicate)	4	6-12-46
Henderson, Patrick H.	Lethbridge	97	16- 9-40
Herman, Martin	Drumheller	48	30- 9-39
Higgins, William	Drumheller	52	30- 9-39
Hilman, Arnold R.	Nordeg	9	13- 7-28
Hodgkinson, John L.	Evansburg	112	21-11-41
Hoole, William	East Coulee	86	10- 9-40
Horne, Robert	Drinnan	4	27- 9-39
Hudze, Michael	Coleman	13	19- 7-50
Hunter, James	Edmonton	8	27- 9-39
Iwasiuk, Harry	Wabamun	7	27- 9-39
Johnson, Albert E.	Edmonton (duplicate)	126	3- 3-47
Johnson, John C.	Lethbridge	1	16- 7-49
King, Samuel D.	Iron Springs	41	30- 9-39
*King, William G.	Lethbridge	37	30- 9-39
Lain, John T.	Foothills	69	24-11-39
Lambert, Louis J.	Edmonton	3	25- 9-39
Lamond, David	Edmonton	121	12- 7-44
Laslop, Ignac	Midlandvale	92	11- 9-40
Lattin, Albert	Drumheller	89	10- 9-40
Lavis, Stewart	Drumheller	119	12-11-43
Lawrence, Charles G.	Hillcrest	19	30- 9-39
Lister, Alexander B.	Edmonton	9	27- 9-39
Lupul, Eugene	Saunders	122	12- 7-44
Manning, Thomas	Drumheller	93	11- 9-40
Marsh, Cyril	Drumheller	57	30- 9-39
Mathison, Matthew	Robb	72	24-11-39
Mellet, Percy M.	Sterco	71	24-11-39
Milesen, Thomas H.	Lethbridge	34	30- 9-39
Miller, Leonard E. A.	Drumheller	24	12- 7-54
Miller, William J.	Ryley (Duplicate)	19	6- 7-53
Millett, Fernley E.	Blairmore	22	30- 9-39
Milner, Robert	Lethbridge	44	30- 9-39
Milo, Michael	East Coulee	65	30- 9-39
Mitchell, Robert	Coleman	20	30- 9-39
Mizera, Lawrence D.	Edmonton	26	12- 7-54
Montalbetti, Ernest	Coleman	2	16 7-49

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LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Montalbetti, Ralf A.	Coleman	32	30- 9-39
Mozell, William J.	Coleman	2	3-8-46
Muhlberg, Karl A.	Mountain Park	125	8-11-44
Munro, James H.	Lethbridge	45	30- 9-39
Murdoch, Horace	Rosedale	56	30- 9-39
Murdoch, Stewart	Coleman (duplicate)	3	25-10-46
Musgrove, Fred	Canmore	105	23- 9-41
MacDonald, Edwin M.	Bellevue	24	30- 9-39
McBride, Roy F.	Halkirk	23	11- 7-53
McGregor, Hector	Lethbridge	36	30- 9-39
McKay, Fred	Blairmore	25	30- 9-39
McLaughlin, Edward G.	Luscar	20	11- 7-53
McLeod, Fraser	Mercoal	74	24-11-39
McMahon, James	Lethbridge	38	30- 9-39
*McQuillan, D. J.	Saunders	113	15-10-42
Nelson, Cais E.	Lethbridge	42	30- 9-39
Nelson, Leonard G.	Lethbridge	96	16- 9-40
O'Dwyer, John J.	Midlandvale	89	10- 9-40
Oliphant, Cyril	Carbon	80	21-12-39
Oliver, Kenneth	Taber	109	29- 9-41
Peebles, James W.	Shaughnessy	10	19- 7-50
Phillips, Robert	Edmonton	111	21-11-41
Porter, Glen	Luscar	77	24-11-39
Quintilio, Daniel	Bellevue	5	18- 7-47
Raffin, Peter D.	Nordegg	11	19- 7-50
Raisbeck, Luke	East Coulee	64	30- 9-39
Ransom, Albert S.	Nacmine	118	12-11-43
Reishus, Odin K.	East Coulee	63	30- 9-39
Rice, Robert G.	Cadomin	6	18- 7-47
Riordan, Leo	Edmonton	104	1- 5-41
Ritchie, Charles O.	Bellevue	1	18- 7-46
Roome, Ronald	Mountain Park	3	16- 7-49
Root, Clarence	Robb	73	24-11-39
Sbora, John	Drumheller	54	30-10-39
Shanks, David S.	Nordegg	13	11-10-39
Sikora, Joseph J.	Coleman	5	16- 7-49
Siray, Louis	Shaughnessy	6	16- 7-49
Skow, Arthur M.	Drumheller	62	30-10-39
Smith, Charles A.	Midlandvale	17	14- 7-52
Smith, Eric W.	Nordegg	12	11-10-39
Speight, James A.	Midlandvale	58	30-10-39
Stacey, Alfred R.	Hinton	68	30-10-39
*Stewart, R. T.	Edmonton	99	14-11-40
Tait, Burton	Edmonton	110	21-11-41
Thackray, John	Shaughnessy	108	29- 9-41
Trysinski, Stanley	Hinton	103	23-12-40
Vasek, Steven	Coleman	33	30-10-39
Warn, Roland	Bellevue	30	30-10-39
Waters, William J.	Saunders	10	11-10-39
Watson, James S.	Mountain Park	75	24-11-39
Webster, James S.	Shaughnessy	35	30-10-39
Wiens, William J.	Fernie, B.C. (duplicate)	18	9- 2-53
Welsh, David	Hillcrest	8	19- 7-50
Weston, Clarence E.	Rosedale	66	30-10-39
Wilson, Glen H.	Edmonton	6	27- 9-39
Wilson, John	Nordegg	11	11-10-39
Wilson, Mike	Willow Creek	94	12- 9-40
Wollersheim, Philip	Drumheller	106	25- 9-41
Worobec, William N.	Bellevue	114	15-10-42
Wyatt, Douglas	Diamond City	43	30-10-39
Wyllie, Gordon F.	Shaughnessy	9	19- 7-50
Wyrostok, Emil	Shaughnessy	8	13- 7-48
Zukevich, William	Mercoal	4	16- 7-49

*Deceased

THE MINES DIVISION

LIST OF NAMES OF HOLDERS OF SECOND CLASS MINE ELECTRICIANS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Anderson, Raymond E.	Shaughnessy	14	13- 7-48
Auger, Norman L.	Nacmine	1	16- 7-49
Balsas, Peter	Fernie, B.C.	15	14- 7-52
Collins, Charles E.	Drumheller	12	16- 7-51
Conlin, Lloyd R.	Drumheller	6	18- 7-47
Daintith, Joseph	Camrose	11	16- 7-51
Farmer, John T.	Edmonton	3	30 7-46
Fox, Benjamin	Carbon	9	16- 7-51
Galloway, Robert C.	Nordegg	4	19- 7-46
Gitzel, Edward	Luscar	1	18- 7-46
Gustason, Oxyl G.	Canmore	4	19- 7-50
Harvey, Edward N.	Rosedale	6	19- 7-50
Higgins, Frank	Drumheller	16	13- 7-48
Hill, Lewis E.	Lethbridge	17	13- 7-48
Holman, Jonathan P.	Robb	2	16- 7-49
Hvizdos, Stefan	Bellevue	5	19- 7-50
Jackson, John	Edmonton	3	16- 7-49
Johnson, John C.	Lethbridge	7	18- 7-47
Kosinsky, Victor	Nordegg	5	18- 7-47
Miller, Leonard E. A.	Drumheller	10	16- 7-51
MacLauchlan, Douglas J.	Calwin, P.O.	7	19- 7-50
McLaughlin, Edward G.	Calgary	16	14- 7-52
O'Dwyer, Harold A.	Wayne	13	16- 7-51
Peebles, James W.	Lethbridge	12	13- 7-48
Sikora, Joseph J.	Coleman	15	13- 7-48
Siray, Louis	Shaughnessy	11	13- 7-48
Smith, Charles A.	Midlandvale	10	12- 2-48
Wakaruk, George	Drumheller	17	12- 7-54
Webster, William H.	Rosedale	8	19- 7-50
Wetherell, John J.	Canmore	14	14- 7-52
Wyllie, Gordon F.	Shaughnessy	13	13- 7-48
Wyrostok, Emil	Shaughnessy	8	18- 7-47

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Aschaker, Martin	Blairmore	32	18-10-48
Barclay, William	Nacmine	41	11- 5-50
Bish, Homer F.	Forestburg	58	3- 7-51
Blackstock, William J.	Calgary	63	13-12-48
Blake, Henry	Blairmore	56	13-12-48
Blasetti, Angelo	Nordegg	71	7-11-52
Bradley, Norman A.	Edmonton	21	18-10-48
Brady, John	Lethbridge	66	6- 8-52
Brown, John D. B.	Blairmore	26	19- 8-49
Brown, William B.	Castor	37	18-10-48
Burton, John T.	East Coulee	1	7- 5-49
Campbell, Thomas	Drumheller	42	11- 5-50
Campbell, Victor W.	Grassy Lake	27	19- 8-49
Chavignaud, Louis G.	Mercoale	38	18-10-48
Clyne, James M.	Edmonton	60	2- 4-52
Collett, Karl W.	Calgary	57	13-12-48
Congdon, Milton H.	Bellevue	68	13-12-48
Cook, Carlton C.	Taber	2	7- 5-49
Cote, Paul H.	Edmonton	3	7- 5-49
Cowie, James L.	Blairmore	28	19- 8-49
Crabb, Daniel J.	Lethbridge	43	11- 5-50
Cragg, William M.	Eyremore	30	18-10-48
Crawford, Alexander	Edmonton	4	7- 5-49
Crawford, Hugh	East Coulee	73	13-12-48
Crawford, John	Edmonton	3	18-10-48
Daintith, Joseph	Camrose	80	12- 7-54
Dalziel, Robert	Edmonton	65	13-12-48
D'Amico, Zupito	Nordegg	29	19- 8-49
Davidson, John M.	Lethbridge	58	13-12-48
Diamond, Rene A.	Blairmore	77	27- 6-53
Dick, William J.	Edmonton	40	19- 8-49
Dinsdale, William	Nacmine	52	6- 9-50
Donaldson, Adam G.	Lethbridge	78	30- 7-53
Donkin, Frederick I.	Michel, B.C.	5	7- 5-49
Douglas, Peter S. Jr.	Cadomin	16	18-10-48
Dunn, Robert A.	Midlandvale	70	24- 9-52

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Dutton, Joseph A.	Edmonton	4	18-10-48
Evans, Howell	Luscar	52	13-12-48
Farmer, Eric E. J.	Edmonton	50	15- 7-50
Foster, William	Wabamun	47	18-10-48
Fraser, Arthur A.	Coal Valley	24	18-10-48
Fraser, William B.	Coleman	20	18-10-48
Gallinger, Wilber	Tofield	49	18-10-48
Gardner, Harold H.	Fernie, B.C.	74	2- 3-53
Garriott, Harry M.	Eyremore	6	7- 5-49
Goodwin, William	Bellevue	14	18-10-48
Hall, William E. G.	Calgary	5	18-10-48
Halldorson, Arni S.	Hillcrest	57	3- 7-51
Hamilton, Allan	Drumheller	30	19- 8-49
Hamilton, Duncan C.	Luscar	50	18-10-48
Harrington, Michael A.	Cadomin	7	7- 5-49
Harvie, John	Edmonton (Honourary)	2	18-10-48
Heeley, William G.	Calgary	6	18-10-48
Henderson, Austin J.	Cadomin	31	19- 8-49
Henderson, David C.	Castor	8	7- 5-49
Hibbert, William	Aerial	78	13-12-48
Higgins, Alexander	Calgary	65	1- 8-52
Hill, Albert B.	Blairmore	61	13-12-48
Hnatyshyn, Andrew C.	Drumheller	70	13-12-48
*Hooks, Albert	Calgary	75	13-12-48
Hooyberg, Adrian	Blairmore	53	6- 9-50
Horne, Frederick L.	Luscar	77	13-12-48
Horne, James	Drumheller	8	18-10-48
Howells, Nathaniel	Cambria	44	11- 5-50
Irving, Donald F.	Dodds	27	18-10-48
Jones, Daniel	Robb	74	13-12-48
Kapach, Michael S.	Luscar	24	7- 5-49
Keith, Homer P.	Edmonton	69	13-12-48
*Kellock, James	Carbondale	71	13-12-48
Kubin, John J.	Bellevue	54	28- 2-51
Lagunoff, Victor	East Coulee	79	29- 1-54
Lister, Arthur L.	Blairmore	10	18-10-48
Livingstone, Robert D.	Lethbridge	9	7- 5-49
Logan, Thomas J.	Morinville	44	18-10-48
Mainland, William B.	Dodds	51	15- 7-50
Mannix, Frederick C.	Calgary	54	13-12-48
Marshall, Thomas	Cluny	32	19- 8-49
Matson, Clarence M.	Nordegg	42	18-10-48
Melnyk, Nick	Cadomin	67	13-12-48
Melson, Philip	East Coulee	10	7- 5-49
Michalsky, Joseph J.	Blairmore	64	14- 7-52
Miller, David	Bellevue	25	7- 5-49
Miller, Henry	Bellevue	15	18-10-48
Mingle, Wesley R.	Calgary	11	7- 5-49
Montgomery, Brockwell L.	Calgary	33	19- 8-49
Morgan, Dewi R.	Fernie, B.C.	72	11-12-52
Morgan, Evan H.	Lethbridge	56	5- 3-51
Morgan, Owen	Saunders	45	11- 5-50
Morgan, Thomas E.	Blairmore	34	18-10-48
Morris, William	Foothills	55	1- 3-51
Mrokwia, Victor Jr.	Canmore	12	7- 5-49
Muir, Alexander	Edson	7	18-10-48
Munn, Robert B.	Camrose	19	18-10-48
Macaulay, Angus G.	Drumheller	34	19- 8-49
MacKinnon, Donald F.	Mountain Park	46	18-10-48
MacKinnon, Hugh G.	East Coulee	48	11- 5-50
McAndrew, John	Calgary	46	11- 5-50
McArthur, Archibald A.	Carbon	28	18-10-48
McDonald, Duncan	Gregg River	13	7- 5-49
McDonald, Leslie M.	Mountain Park	25	18-10-48
McDonald, Malcolm M.	Taber	14	7- 5-49
McIntyre, John J.	Coleman	60	13-12-48
*McLeod, John A.	Vancouver, B.C.	15	7- 5-49
McMullen, Arthur	Nordegg	35	19- 8-49
Neufeld, J. P.	Grassy Lake	23	18-10-48
Neumann, Theodore O.	Calgary	35	18-10-48
Norton, Robert E.	Mountain Park	16	7- 5-49
Odum, Nelson E.	Nordegg	51	18-10-48
Olynek, Edward	Foothills	68	2- 9-52
Paepe, Henry	Morinville	43	18-10-48
Pagnucco, Lodovico G.	Blairmore	63	14- 7-52
Panchysyn, Edward J.	Blairmore	41	18-10-48
Platt, John	Calgary	59	17-12-51
Potter, Idwal N.	Nacmine	47	11- 5-50
Ramsay, Peter M.	Calgary	66	13-12-48
Rappel, Thomas	Rosedale	31	18-10-48

THE MINES DIVISION

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Rhynas, Melville G.	Taber	13	18-10-48
Richards, M. C. R.	Rosedale	36	18-10-48
Riva, Walter J.	Canmore	75	8- 4-53
Sandino, Joseph A.	Drumheller	17	7- 5-49
Schymizek, John	Big Valley	49	15- 8-50
Scott, Andrew N.	Edmonton	59	13-12-48
Scott, Andrew Jr.	Luscar	55	13-12-48
Scott, Norman E.	Tofield	18	18-10-48
Shaw, Robert	Drumheller	11	18-10-48
Siega, Levy J.	Bellevue	62	14- 7-52
Slominsky, William A.	Calgary	36	19- 8-49
Smart, Robert K.	Nanaimo, B.C.	18	7- 5-49
Smith, Terence	East Coulee	19	7- 5-49
Stein, Richard C.	Blairmore	76	13-12-48
Stevens, Leonard C.	Edmonton	40	18-10-48
Stevenson, William F.	Edmonton	39	18-10-48
Tanner, Hon. N. E.	Edmonton (Honourary)	1	18-10-48
Tennant, Robert	Alexo	76	3- 6-53
Thomson, John	Edmonton	9	18-10-48
Tonge, Reginald G.	Blairmore	20	7- 5-49
Twomey, Dennis	Camrose	48	18-10-48
Vennard, Raymond R.	Cadomin	64	13-12-48
Vissac, Gustave A.	Vancouver, B.C.	17	18-10-48
Viviyurka, John	Wabamun	22	18-10-48
Walker, Raymond G.	Sterco	29	18-10-48
Wanner, George	Eyremore	21	7- 5-49
Welch, Cyril J.	Blairmore	62	13-12-48
Westergaard, Melvin G.	Coleman	53	13-12-48
Westgate, John C.	Eyremore	45	18-10-48
White, James B.	Aerial	67	14- 8-52
Whittaker, William C.	Calgary	72	13-12-48
Wieckowski, Mieczyslaw	Coleman	61	14- 7-52
Wiggan, George A.	Eyremore	33	18-10-48
Williams, Arthur E.	Bellevue	12	18-10-48
Wilson, Andrew	Coleman	22	7- 5-49
Wilson, William	Canmore	73	29-12-52
Wilton-Clark, Harry	Fernie, B.C.	37	19- 8-49
Wood, Richard L.	Sheerness	26	18-10-48
Worthington, Willard T.	Edmonton	23	7- 5-49
Worthington, Willard T. Jr.	Edmonton	38	19- 8-49
Young, Charles	Bellevue	69	4- 9-52
Young, David B.	Cadomin	39	19- 8-49

*Deceased

LIST OF NAMES OF HOLDERS OF FOREMEN'S CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Allen, William A.	Sterco	66	13-12-48
Ambrosi, Antonio	Blairmore	9	18-10-48
Anderson, Orson L.	Eyremore	14	18-10-48
Appleby, William S.	Rosedale	24	19- 8-49
Bain, Alexander	Coleman	1	7- 5-49
Baratelli, John	Blairmore	11	18-10-48
Bartsch, Theodore G.	Robb	70	3- 7-51
Beardsley, Arthur J.	Picardville	37	18-10-48
Belcourt, Ernest	Tofield	2	7- 5-49
Binder, Christopher	Ryley	92	22-11-51
Bish, Homer F.	Forestburg	44	15- 7-50
Bish, Walter H.	Forestburg	56	15- 7-50
Bishop, Bert H.	Sheerness	3	7- 5-49
Bohle, Otto H.	Hillcrest	25	19- 8-49
Bordula, Andrew J.	Hanna	38	18-10-48
Bordula, Edward A.	Hanna	89	22-11-51
Briggs, George W.	Drumheller	109	22-10-52
Bryant, Ernest A.	Wabamun	41	19- 8-49
Budinski, Stanley	Robb	118	27- 6-52
Burnstad, Sigurd	Ohaton	64	13-12-48
Campbell, Albert A.	Round Hill	68	3- 7-51
Campion, Samuel J.	Halkirk	131	12- 7-54
Cardie, Terrence P.	Bellevue	65	3- 7-51
Carson, James	Forestburg	4	7- 5-49
Carter, Leo R.	Alix	5	7- 5-49
Chambers, Harold S.	Delia	43	18-10-48

LIST OF NAMES OF HOLDERS OF STRIP MINE FOREMEN'S
CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Chiswick, James	Gadsby	1	18-10-48
Christaens, Cyrille	Cardiff	6	7- 5-49
Clark, Wayne R.	Keep Hills	69	3- 7-51
Clyburn, Norman S.	Luscar	41	18-10-48
Coleman, Ben	Calgary	26	19- 8-49
Coleman, Donald D.	Coleman	27	19- 8-49
Coljee, Henry	Edmonton	74	3- 7-51
Corkish, Edward	Eyremore	13	18-10-48
Cornelssen, Kenneth K.	Nevis	71	3- 7-51
Craig, Thomas	Hillcrest	102	14- 7-52
Daintith, Joseph	Camrose	69	13-12-48
Davidson, Darrell W.	Three Hills	12	18-10-48
Deuchar, Walter D.	Delburne	125	27- 6-53
Dombroski, Titus	Thorhild	4	18-10-48
Doupe, William E.	Wembley	63	13-12-48
Dropo, William A.	Calgary	51	13-12-48
Dunlop, Thomas S.	Coleman	47	15- 7-50
Ells, Douglas R.	Edmonton	28	19- 8-49
Embree, Merton B.	Sheerness	121	27- 6-53
Farrell, Clarence	Luscar	81	3- 7-51
Fellows, Frank	Edmonton	15	18-10-48
Fergstad, Charles A.	Round Hill	77	3- 7-51
Flanders, Arthur L.	Eyremore	7	7- 5-49
Fletcher, Earl	Castor	8	7- 5-49
Fodor, Frank	Warburg	94	22-11-51
Fortin, Michael	Coal Valley	67	13-12-48
Foss, George	Dodds	88	22-11-51
Francey, John A.	Duffield	17	18-10-48
Fridel, Stephen	Edmonton	124	27- 6-53
Gabert, Jake	Halkirk	50	15- 8-50
Gaetz, Christopher	Hanna	39	18-10-48
Gaetz, John	Hanna	31	18-10-48
Galvin, Raymond E.	Grassy Lake	73	3- 7-51
Garriott, Clarence F.	High River	9	7- 5-49
Gent, William J.	Halkirk	110	22-10-52
Gordon, David L.	Warden	22	18-10-48
Gryschuk, Lenin N.	Hillcrest	75	3- 7-51
Harper, James	Bellevue	29	19- 8-49
Harrigan, Michael A.	Cadomin	56	13-12-48
Harrison, Edward B.	Luscar	59	3- 7-51
Harrison, John W.	Ryley	134	12- 7-54
Heaston, Franklin J.	Sheerness	40	20- 9-49
Henderson, Austin J.	Gregg River	44	18-10-48
Herrman, John R.	Cadomin	30	19- 8-49
Herrick, Wallace E.	Eyremore	3	18-10-48
Hewitt, Donald A.	Luscar	119	27- 6-53
Higdon, Augustus A.	Nacmîne	10	7- 5-49
Hluska, Walter	Robb	117	27- 6-53
Houle, Adelard	Morinville	55	15- 7-50
Hubert William	Big Valley	106	14- 7-52
Hughes, Jack	Robb	99	14- 7-52
Hughes, William A.	Luscar	68	13-12-48
Jackson, Harold W.	Forestburg	108	14- 7-52
James, William	Robb	97	14- 7-52
Ironside, Telfer G.	Scapa	33	18-10-48
Jamieson, William M.	Halkirk	18	18-10-48
Johnson, Reuben	Coleman	19	18-10-48
Jones, William A.	Donalda	93	22-11-51
Kapach, Michael S.	Luscar	10	18-10-48
Kinjerski, Frank	Dodds	2	18-10-48
Klapstein, Reuben	Edmonton	26	18-10-48
Konschuk, Victor	Gainford	35	18-10-48
Kubin, John J.	Luscar	72	21-12-48
Kukuchka, Peter	Coal Valley	60	13-12-48
Kwasney, Stanley	Mountain Park	70	13-12-48
Lamb, Charles W.	Sheerness	123	27- 6-53
Lang, John	Halkirk	49	15- 7-50
Larson, Roy E.	Luscar	62	2- 7-51
Leonhardt, Victor	Drumheller	53	15- 7-50
Letcher, George L.	Mountain Park	42	18-10-48
Livingstone, Alan S.	Nacmîne	34	18-10-48
Logan, Arthur	Morinville	6	18-10-48
Logan, Thomas C.	Calgary	11	7- 5-49
Long, Charles	Blairmore	48	13-12-48
Long, James L.	Sterco	50	13-12-48
Lynass, John H.	Delburne	23	18-10-48
Mainland, William B.	Dodds	29	18-10-48
Marshall, Robert S.	Luscar	61	3- 7-51
Martin, Gabriel	St. Francis	63	3- 7-51
Martin, William G.	Delburne	31	19- 8-49

LIST OF NAMES OF HOLDERS OF STRIP MINE FOREMEN'S
CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Mather, John	Edmonton	87	22-11-51
Melesko, John	Thorhild	96	22-11-51
Meers, Kenneth G.	Eyremore	12	7- 5-49
Melidones, Platos	Nordegg	54	13-12-48
Michalsky, Joseph J.	Blairmore	8	18-10-48
Milne, George M.	Stettler	51	15- 7-50
Milne, John A.	Stettler	83	3- 7-51
Mitchell, John C.	Luscar	115	27- 6-53
Mortenson, Niels	Tofield	13	7- 5-49
Mucha, John G.	Edmonton	5	18-10-48
Munro, Stanley S.	Ardley (duplicate)	57	25-10-50
Muspratt, Gordon T.	Coleman	84	22-11-51
MacLachlan, Charles F.	Edmonton	14	7- 5-49
McDevitt, James J.	Edmonton	32	19- 8-49
McDonald, Duncan	Gregg River	55	13-12-48
McKenzie, Melbourne W.	Blairmore	53	13-12-48
McQuaker, Robert G.	Warburg	133	12- 7-54
Neilson, Morten H.	Halkirk	46	15- 7-50
Nelson, Edgar S.	Eyremore	16	18-10-48
Nelson, Roland G.	Rosedale	128	12- 7-54
Newall, Edward	Seba Beach	40	18-10-48
Nixon, George R.	Eyremore	111	22-10-52
Nottal, Florin	Three Hills	32	18-10-48
Novosel, John F.	Luscar	101	14- 7-52
O'Dwyer, Michael A.	Drumheller	104	14- 7-52
O'Hanlon, Arthur J.	Edmonton	15	7- 5-49
Oliver, Edward	Rolling Hills	122	27- 6-53
Olson, Melvin H.	Ardrossan	28	18-10-48
Ostertag, Charles	Entwistle	66	3- 7-51
Ostertag, Gordon	Entwistle	7	18-10-48
Ostrowski, Joe	East Coulee	135	12- 7-54
Ovelson, Kenneth V.	Kingman	52	15- 7-50
Ozubko, Steve	Michel, B.C.	33	19- 8-49
Ozubko, William	Cadomin	61	13-12-48
Pahl, Fred M.	Hanna	36	18-10-48
Pahl, Otto F.	Hanna	62	13-12-48
Pastorchik, Walter	Three Hills	24	18-10-48
Patterson, John B.	Natal, B.C.	34	19- 8-49
Paull, Stewart J.	Natal, B.C.	127	3- 9-53
Petersen, Ramus	Nordegg	57	13-12-48
Petruch, Florian	Warburg	136	12- 7-54
Phillips, Cyril F.	Robb	103	14- 7-52
Pinter, Joseph	Warburg	30	18-10-48
Plesuk, William	Beverly	85	22-11-51
Pooke, Nick	Ryley	48	15- 7-50
Pozzi, Dante	Bellevue	47	18-11-48
Pratt, Howard S.	Dodds	86	22-11-51
Quinn, Patrick	Calgary	16	7- 5-49
Rayner, Arthur F.	Calgary	54	15- 7-50
Reilly, Aloysius	Nordegg	65	13-12-48
Reishus, Odin K.	Rolling Hills	112	22-10-52
Rice, Robert G.	Sheerness	130	12- 7-54
Romaniuk, Michael	Beaverlodge	98	14- 7-52
Roscovich, Frank	Sterco	35	19- 8-49
Rucka, Joseph S.	Coleman	107	14- 7-52
Russell, Charles M.	Alix	20	18-10-48
Schnepf, Karl J.	Delburne	36	19- 8-49
Schymizek, John	Big Valley	37	19- 8-49
Shearer, John C.	Hillcrest	58	3- 7-51
Shulha, John P.	Blairmore	49	13-12-48
Siega, Levy J.	Bellevue	45	15- 7-50
Sissons, Robert C.	Alix	27	18-10-48
Skarin, Emil R. T.	Edmonton	90	22-11-51
Slunisky, George	Luscar	71	13-12-48
Sommerville, Alexander R.	Three Hills	126	27- 6-53
Sorken, Alfred N.	Killam	46	18-10-48
Stene, Alexander	Mountain Park	42	15- 7-50
St. Martin, John B.	Legal	21	18-10-48
Stock, David	Cadomin	59	13-12-48
Stover, Martin A.	Bellevue	105	14- 7-52
*Stratton, Robert	Robb	17	7- 5-49
Straub, Robert R.	Alix	60	3- 7-51
Sward, Henry	Sheerness	18	7- 5-49
Talbot, Thomas A.	Eyremore	113	22-10-52
Thomas, William J.	Luscar	73	21-12-48
Tocher, Victor G.	Gregg River	58	13-12-48
Troudt, Jacob	Coal Valley	67	3- 7-51
Vejprava, Frank P.	Frank	38	19- 8-49
Vitaly, Mike	Edmonton	120	27- 6-53
Voice, Roy	Edmonton	39	19- 8-49

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LIST OF NAMES OF HOLDERS OF STRIP MINE FOREMEN'S
CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Certificate
Voykin, Peter	Blairmore	79	3- 7-51
Vranas, George	Morinville	19	7- 5-49
Walker, Harold E.	Sheerness	20	7- 5-49
Walper, William H.	Alix	76	3- 7-51
Wanner, George	Wabamun	21	7- 5-49
Ward, Walter B.	Sheerness	132	12- 7-54
Watson, Alex	Blue Ridge	64	3- 7-51
Whittaker, Ora W.	Beynon	22	7- 5-49
Wilson, Rufus B.	Tofield	25	18-10-48
Wirove, Joseph	Eyremore	23	7- 5-49
Wright, Alan	Blairmore	52	13-12-48
Wright, Albert	Mountain Park	43	14- 7-50

LIST OF NAMES OF HOLDERS OF STRIP MINE BLASTERS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Anderson, Olaf	Camrose	1	7- 5-49
Babala, William	Luscar	27	21-12-48
Baluch, Steve	Mountain Park	2	7- 5-49
Bokenfohr, Herman	Cardiff	3	7- 5-49
Bozich, John	Blairmore	1	18-10-48
Brown, Richard G. F.	Mercoal	28	12- 7-54
Budinski, Stanley	Robb	18	14- 7-52
Christensen, Jens	Mountain Park	6	18-10-48
Comfort, Charles S.	Blairmore	12	18-10-48
Craig, Thomas	Hillcrest	8	19- 8-49
Cunningham, Edward D.	Sterco	22	13-12-48
Curd, William F.	Sundance	3	18-10-48
Farrell, Clarence	Luscar	24	21-12-48
Gailey, Clifford H.	Eyremore	4	18-10-48
Hanson, Hans M.	Eyremore	9	18-10-48
Henderson, William	Nordegg	19	13-12-48
Jackson, Harold W.	Forestburg	17	22-11-51
Johnson, Anton	Tofield	10	18-10-48
Karlsen, Hjalmar	Coleman	26	27- 6-53
Karomarkovich, Marko	Cadomin	23	13-12-48
Korol, Steve	Coleman	20	13-12-48
Krkosky, Martin	Blairmore	7	7- 5-49
Kropinak, Frank	Blairmore	2	18-10-48
Lane, Ernest L.	Eyremore	15	3- 7-51
Lovenuik, Nick	Coal Valley	15	13-12-48
Millar, William G.	Coleman	14	13-12-48
Miller, Alexander D.	Eyremore	7	18-10-48
Mitchell, John C.	Luscar	12	3- 7-51
Mordeen, Axel	Luscar	25	21-12-48
Mottl, Orly	Blairmore	4	7- 5-49
McLaren, Ian A.	Foothills	24	27- 6-53
McLellan, Lloyd W.	Bellevue	21	13-12-48
Nixon, George R.	Eyremore	14	3- 7-51
Ohline, Axel	Cadomin	13	13-12-48
Palichuk, Nick	Robb	20	14- 7-52
Paull, Stuart, J.	Natal, B.C.	25	27- 6-53
Pilichowski, George	Luscar	26	21-12-48
Pooke, Nick	Ryley	11	18-10-48
Poulsen, Paul	Luscar	16	3- 7-51
Rallison, Thomas	Coleman	21	18- 7-52
Rizzi, Peter S.	Wabamun	5	7- 5-49
Savignac, Joseph	Sterco	17	13-12-48
Schafers, Emil	Morinville	6	7- 5-49
Schenkenfelder, Mike	Wabamun	5	18-10-48
Schultz, Lawrence D.	Halkirk	30	12- 7-54
Schymizek, Frank	Fallis	9	19- 8-49
Strazza, Peter L.	Mountain Park	11	15- 7-50
Thorndson, Morris N.	Camrose	16	13-12-48
Vaughn, John B.	Creston, B.C.	10	19- 8-49
Voynovich, Rade	Robb	27	12- 7-54
Wilson, Fred	Eyremore	8	18-10-48
Worobec, William	Coal Valley	19	18- 7-52
Zupan, Anthony	Cadomin	18	13-12-48

THE MINES DIVISION

LIST OF NAMES OF HOLDERS OF QUARRY BLASTERS' CERTIFICATES

Name	Address	Cert. No.	Date of Certificate
Callaway, Robert B.	Exshaw	2	21-12-53
Cunliffe, Jack A.	Medicine Hat	11	27- 5-54
Dordevic, Mike	Crowsnest, B.C.	14	7- 5-54
Kwas, Nickola	Exshaw	6	21-12-53
Lawson, Alan B.	Exshaw	17	27- 9-54
Mills, Alfred B.	Exshaw	7	1- 2-54
McKenzie, John	Exshaw	3	21-12-53
Perry, John A.	Medicine Hat	12	27- 5-54
Pinet, Jean P.	Exshaw	5	21-12-53
Richter, Paul	Medicine Hat	16	13- 9-54
Schoenenberg, Kaspar	Exshaw	8	1- 2-54
Smaniotto, Americo O.	Exshaw	4	21-12-53
Spagis, John	Canmore	15	7- 6-54
Walker, Maurice W.	Exshaw	1	21-12-53

* Deceased

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 2, 3 and 4, 1954

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 1.Marks required 120
Time—3½ hours.

THE COAL MINES REGULATION ACT

	Values
1. What are the requirements under Section 9 of the above Act, regarding the formal investigation of an accident by an Inspector?	20
2. What does Section 15 of the above Act state in connection with maximum hours of employment below ground?	24
3. What does Regulation (h) of the Electrical Regulations, state regarding the protection of metallic sheaths, switchgear frames, etc.?	22
4. State the requirements of Section 135 of the above Act, regarding signalling equipment and man-holes on haulage roads and inclines.	22
5. State the requirements on Regulation 15 of the Strip Mine Regulations, regarding the firing of shots electrically.	20
6. What are the requirements of Section 92 of the above Act, regarding plan of mines?	22
7. What does Regulation 20 of the Regulations Covering Care and Use of Explosives state regarding the use of non-permitted explosives and delay action fuse detonators in the driving of rock tunnels and other rock work?	22
8. What are the requirements of Regulation (r) of the Electrical Regulations, in connection with electricity used for signalling?	16
9. State the requirements of Regulation 22(a) of the Strip Mine Regulations, regarding accumulations of water.	16
10. What are the requirements under Section 134 of the above Act, regarding the location of underground stables?	16

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 2.Marks required 120
Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS

	Values
1. State the law of diffusion, and show by calculation the composition and specific gravity of the resulting mixture of methane and air.	20
2. 16 lbs. of methane is exploded at the most explosive point. (a) Show the weights of gases before and after ignition. (b) The temperature before ignition was 60 degrees Fah. and after ignition the rise in temperature was 4618 degrees Fah. What pressure was created by the blast?	18
3. A mine situated at 2500 feet above sea level is ventilated by an exhaust fan creating a pressure of 14.56 lbs. per sq. ft., the barometer reading 27.28 inches. The intake volume is 150,000 cu. ft. per min. at 40 degrees Fah. and the return volume is 162,700 cu. ft. per min. at 70 degrees Fah. (a) What volume of gas is given off per minute? (b) What is the percentage of gas in the return?	22
4. (a) Describe short-delay multiple blasting, listing its advantages and disadvantages. (b) Enumerate the possible causes of misfire. (c) Make a list of recommendations that should be met to insure safe milli-second blasting.	22
5. What flame-type safety lamps are approved in Alberta? Enumerate the parts that enclose flame to protect against ignitions, and show the protecting parts also.	18
6. Show by calculations how to derive the density of air. What is meant by specific gravity of gases? Show how the specific gravity of a gas is calculated.	18
7. Due to the occurrence of a mine fire in a fiery coal seam, a section of the mine has been sealed off. Conditions now prevailing within the seals indicate that this section of the mine may be reopened. State the conditions within the seals you would consider suitable before commencing to reopen this section, and the methods you would employ to reopen it safely.	20
8. What gases constitute the exhaust of a diesel engine? What provision is provided in a diesel locomotive to reduce the percentage of these gases and prevent ignitions?	22
9. You are to drive a roadway for a considerable distance in fairly good rock below a seam, and you have a choice of equipment for the project. Describe equipment you would choose, showing pattern for blasting and the cycle to be used for two working shifts.	24
10. The percentage of gas in the return off two splits is 2.2%. One split is passing 20,000 cu. ft. per min. with a reading of 0.8%, and the other is passing 16,000 cu. ft. per min. What is the gas reading in the return of the second split?	16

FIRST CLASS CERTIFICATES

THEORY AND PRACTICE OF VENTILATION

Marks obtainable 200
Paper No. 3.

Marks required 120
Time—3½ hours.

Values

1. A main ventilating fan, capable of producing 250,000 cu. ft. of air per min. with a water gauge of 4½ inches, is to be installed at a new mine. What type of fan would you recommend, and what motive power and form of drive would you choose? Give reasons for your answer and give an outline sketch showing the arrangements of the installation. 22
2. The ventilating system of a mine consists of five main splits, each of which takes approximately 50,000 cu. ft. of air per min. As two of the splits were over ventilated, they have been regulated so as to reduce the quantity in each of them to 25,000 cu. ft. per min. Explain whether or not any saving of power is effected by this arrangement, giving reasons for your answer. 18
3. An airway is 5,000 feet long, 5 feet high and 7 feet wide, and the amount of air passing is 10,000 cu. ft. per min. The airway is to be enlarged to pass 30,000 cu. ft. per min. What will be the new height and width of the airway, the relative dimensions remaining the same? 20
4. What periodical ventilation measurements and determinations do you consider necessary to ensure effective control of the distribution of air in a mine? Describe how you would carry these out and how the results would be used. 20
5. For what purposes can booster and auxiliary fans be used below ground? What steps would you take to satisfy yourself as to the necessity for introducing a booster fan to improve the ventilation of a mine, and what precautions would you consider necessary in installing it? 22
6. Discuss the causes of the rise of temperature and increase of moisture content of the air in its passage through the workings of a deep mine. Assume a surface temperature and state what you would expect the temperature to be at:
 - (a) the bottom of the downcast shaft,
 - (b) the working face one mile inbye,
 - (c) the bottom of the upcast shaft if the depth is 800 yards and the workings level. 20
7. Sketch a permanent air crossing. What are the two principle objects aimed at in the construction, and how would you ensure their achievement? 16
8. What becomes of the horsepower or energy applied to produce the ventilation current in a mine? Enumerate and describe the successive losses as the air travels from the open atmosphere through the workings to the outlet of the fan. 18
9. Two shafts 18 ft. in diameter and 1,200 ft. deep are connected by a roadway at the bottom. The temperatures in the shafts are 62 degrees Fah. and 76 degrees Fah. with the barometer averaging 30.7 inches. Calculate the height of motive column, the quantity of air produced and the horsepower of this natural ventilation, showing the steps by which you arrive at the result. 22
10. The quantity of air in circulation at a colliery is 450,000 cu. ft. per min. and the water gauge is 6½ inches. Assuming that three-phase electric current is supplied at 3,000 volts, that the efficiency and power factor are each 0.81, calculate:
 - (a) the current at full load,
 - (b) the equivalent orifice of the mine,
 - (c) the resistance of the mine. 22

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 4.

Marks required 120
Time 3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

1. Two shafts, 300 feet apart, the line joining their centres being east and west, are sunk through solid strata to a depth of 1,800 feet to a coal seam 5 feet thick dipping 1 in 5 to the south. Mark out a support pillar for the shafts and hoisting equipment and buildings which are erected on the surface to the north of the shafts. Give size or dimensions of buildings and show their locations. 25
2. How would you proceed to give first aid to a person rendered unconscious as the result of an injury in a mine? 18
3. An arched tunnel is to be driven 10 feet wide, 10 feet high and 1,000 feet long. The arch is a semicircle 10 feet in diameter. Two bids are entered for the work; "A" bids \$70.00 per lineal yard, while "B" bids \$7.00 per cubic yard. To which contractor would you give the contract, and why? 17
4. Show by aid of sketches a method of timbering you would use in driving rooms and entries in a very friable coal seam 20 feet in thickness. The seam pitches at 15 degrees, has a hard floor and soft shale roof. 20
5. Nine 6 inch aluminum H beams, 22 feet long, spaced at 2½ foot centres, are each supported by 4 screw jacks at the face of a duckbill operation. As the face of the room advances, the first of the nine aluminum beams has to be removed and advanced to the face. Sketch and describe any safe method of timbering you would order used before removing the aluminum beam, and give your reason for doing so. Rooms are driven 27 feet wide, coal seam is 5 feet thick, flat, and has a firm uneven roof. 20

6. A new coal area is to be developed. Describe clearly the factors which will have to be considered before deciding on the position of the shafts. 25
7. Describe what you consider to be a good safety gate for a shaft cage. Make sketches to clearly illustrate the design. 20
8. A fir beam 6 inches wide, 8 inches deep and 14 feet between supports carries a central load of 2 tons. Find the depth of another beam that will carry a central load of 4 tons with equal safety, other dimensions remaining the same. 15
9. State the conditions under which telephones are required to be installed underground, and discuss the type of installation you would make, having regard for safety and economy. 20
10. Under what conditions would you use for the support of a longwall working face (a) ordinary props, (b) tapered props, (c) steel props? What factors govern the distance apart of "face timbers" and cogs? 20

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 5.

Marks required 120
Time—3½ hours.

MACHINERY

- | | Values |
|--|--------|
| 1. A fan when running at 120 r.p.m. circulates 150,000 cu. ft. of air per min. with a water gauge of 4 inches at the fan drift. Calculate the air horsepower. What would be the quantity, water gauge and air horsepower when the fan speed is 130 r.p.m.? | 24 |
| 2. The piston of a steam engine is 20 inches in diameter and the diameter of the piston rod is 3 inches. The mean effective steam pressure during a stroke is 60 lbs. per sq. in. Calculate the indicated horsepower of the engine when the piston makes 100 strokes per minute, and the length of the stroke is 40 inches. | 18 |
| 3. Coal is to be hoisted up an incline of 1 in 5 by means of an endless rope haulage. Explain where you would place the tension gear for the rope, and state the reasons for your choice. Sketch and describe the tension gear you would employ. | 22 |
| 4. Sketch an arrangement suitable for a main-and-tail rope haulage, and state the conditions suitable for this type of haulage. | 18 |
| 5. Describe with the aid of diagrammatic sketches the difference between a "shunt-wound", a "series-wound", and a "compound-wound" dynamo. | 20 |
| 6. A compressor has compounded air cylinders 29 inches and 18 inches bore (inside diameter) by a 42 inch stroke, and runs at 110 r.p.m. What volume of air will be delivered to the receiver if the gauge pressure is 80 lbs. per sq. in., assuming the volume to vary inversely as the pressure? What factor is ignored in this assumption? (Assume the atmospheric pressure to be 15 lbs. per sq. in.). | 18 |
| 7. A colliery operated by a slope 2.263 feet long, on a pitch of 45 degrees, makes a maximum of 100,000,000 gal. and a minimum of 30,000,000 gal. of water per month. Describe the pumping plant required, using simple direct-acting pumps. Assume 80 lbs. steam pressure at the pumps, and make the necessary calculations. | 24 |
| 8. A pit cage weighing 12 tons is accelerated for 10 seconds at 5 feet per second per second. It runs at a constant speed for 25 seconds and is then retarded at the rate of 4 feet per second per second. Calculate:
(a) the time for a complete wind, allowing 15 seconds for decking the cars,
(b) the depth of the shaft,
(c) the pull on the rope socket during acceleration and retardation periods. | 20 |
| 9. The brake horsepower of an electric haulage is 100. The mechanical efficiency of the haulage gear is 75 per cent and the efficiency of the motor 90 per cent. What current will be taken by the motor if the power is three-phase 50 cycle, 440 volts, and the power factor is 0.8? | 18 |
| 10. An A.C. motor runs at 750 r.p.m. and it is proposed to drive a fan at 200 r.p.m. Give details of the arrangement you would employ to drive the fan. Illustrate your answer with simple sketches. | 18 |

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 6.

Marks required 120
Time 3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

- | | Values | | | | | | | | | | | | |
|--|----------|------------------|------------------|----|----------|-----|----|----------|-----|----|----------|-----|----|
| 1. Calculate the rectangular co-ordinates of the stations B, C and D in the following traverse, and find the position of the point X at which the straight line AD intersects the traverse from B to C. Plot the traverse to a scale of 100 feet to 1 inch. | | | | | | | | | | | | | |
| <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td>Line</td> <td>Bearing</td> <td>Distance in feet</td> </tr> <tr> <td>AB</td> <td>S61°12'W</td> <td>235</td> </tr> <tr> <td>BC</td> <td>S29°54'E</td> <td>505</td> </tr> <tr> <td>CD</td> <td>N88°26'W</td> <td>234</td> </tr> </table> | Line | Bearing | Distance in feet | AB | S61°12'W | 235 | BC | S29°54'E | 505 | CD | N88°26'W | 234 | 40 |
| Line | Bearing | Distance in feet | | | | | | | | | | | |
| AB | S61°12'W | 235 | | | | | | | | | | | |
| BC | S29°54'E | 505 | | | | | | | | | | | |
| CD | N88°26'W | 234 | | | | | | | | | | | |
| 2. Two levels each bearing N65°W are separated by a pillar 100 feet wide and are intersected by two more levels bearing N5°W, which are also separated by a 100 foot pillar. If the seam is 10 feet thick and the specific gravity of the coal is 1.2, find the number of tons of coal left in the pillar formed by their intersection. | 30 | | | | | | | | | | | | |

3. Describe the process of levelling with a straight-edge and spirit level and state under what conditions you would adopt such a method. What preliminary tests would you apply to ensure accurate results? State the circumstances which would decide the length of the straight-edge. 25
4. Following are staff readings in feet taken with a dumpy level in an underground roadway, the readings being given in the order they are taken:

	Staff Reading	Dist. from A in feet
A Back sight	4.95	At A
	3.75	70
	2.95	120
	1.60	200
	0.80	250
B Fore sight	3.20	250
B Back sight	3.40	315
	3.05	280
	3.15	320
C Fore sight		

Show from a specimen page of a levelling book how the above data would be entered therein. Assume that the point A is 250.35 feet above colliery datum and reduce the levels accordingly as heights above this datum. Give the gradient from Station A to Station C in terms of degrees, percentage and one of vertical per horizontal units. 40

5. Discuss the various geological disturbances which may influence the layout of a virgin coal seam, having regard to existing information which may have been obtained during the working of a seam 100 feet above. 30
6. A pentagon is made by placing an equilateral triangle on a square. If the area so formed is 14.78 square inches, what is the length of each side? 15
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10
8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 2, 3 and 4, 1954

SECOND CLASS CERTIFICATES

Marks obtainable 200
Paper No. 1.

Marks required 100
Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What are the requirements of Section 34 of the above Act regarding deductions from wages for supplies? 15
2. What does Section 11 of the above Act state regarding employment of females and males? 24
3. What are the provisions of Regulation (t) of the Electrical Regulations regarding the installation and use of electrical locomotives? 20
4. What are the provisions of Section 60 of the above Act regarding supervision by overman? 24
5. What are the provisions of Section 134 of the above Act in connection with underground stables? 20
6. What do the Regulations Covering Care and Use of Explosives state regarding record to be made by shot-lighter? (Reg. 14). 20
7. What are the requirements of Section 66 of the above Act regarding the installation of fans and stoppage of same? 16
8. What does Regulation 20 of the Regulations Covering Care and Use of Explosives state regarding the use of non-permitted explosives and delay action detonators? 25
9. What does Section 79 of the above Act state regarding monthly returns of production? 20
10. What are the requirements of the above Act in regard to lighting of locomotives and other trips? (Sec. 137). 16

SECOND CLASS CERTIFICATES

Marks obtainable 200
Paper No. 2.

Marks required 100
Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS AND VENTILATION

1. Sketch and describe an MSA Methane Tester. Would you recommend examiners using only the Methane Tester for examining? Give reasons for your answer. 20
2. Show by sketch how you would shoot a 12 ft. by 9 ft. solid face with milli-second detonators. Enumerate causes of missfires in this type of blasting. 20

3. Give the properties, behaviour, occurrence and manner of detection of each of the following gases: CH₄; CO; CO₂; H₂S; C₂H₄; N₂O. 20
4. In a mine with two shafts 600 feet deep, the average temperature of the downcast is 40 degrees Fah. and the average temperature of upcast 70 degrees Fah.
 (a) What is the length of motive column?
 (b) What pressure and water gauge does the column represent? 22
5. In an airway 6 feet by 8 feet and 2,000 feet long, find the area of a regulator to reduce the quantity to 30,000 c.f.m. The ventilating pressure at mouth of airway is 15 lbs. per sq. ft. 22
6. If the examiner reported to you as overman that he suspected incipient heating in his district, what would you do, and how would you proceed to investigate? If, after careful investigation, you fail to discover any signs of heating, can you suggest what may have given rise to the false alarm? 20
7. 40,000 cubic feet of air per minute is passing through an airway 10 ft. by 6 ft. with a $\frac{3}{4}$ inch water gauge. What water gauge will pass the same quantity in a 6 ft. by 6 ft. airway? 18
8. List the flame type safety lamps approved in Alberta. What precautions should be taken in using a flame type safety lamp? 20
9. What conditions are necessary to cause an explosion of firedamp? 18
10. Occasionally during blasting operations on a longwall face 300 ft. long and cut to a depth of 5 ft., firedamp has been found. State what precautions you would adopt to ensure safety. The coal is dry and dusty. 20

SECOND CLASS CERTIFICATES

Marks obtainable 200
Paper No. 3.

Marks required 100
Time—3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

- | | Values |
|---|--------|
| 1. Describe the various methods used in longwall working to provide substantial roof supports in the area behind the face of work, giving your views on caving, strip packing in the gob, and solid stowing by hand or mechanical means. | 22 |
| 2. Discuss clearly the question of signalling on conveyor faces and describe any method with which you are familiar. State which you consider to be the most efficient system and give your reasons. | 20 |
| 3. What is your chief consideration as captain of a mine rescue team while investigating a mine explosion and wearing the rescue apparatus? How would you render first aid to a person with a broken forearm? | 18 |
| 4. It is proposed to develop a large area of a level seam at a depth of 300 feet from the surface. Discuss the relative merits of using vertical shafts or inclined slopes. | 20 |
| 5. A winding rope is 800 yards long and weighs 12 pounds per foot. The cost of the rope is \$20.50 per cwt., and during a period of three years it is used to hoist 280,000 tons per year. What is the cost of the rope and the cost per ton of the coal hoisted? | 20 |
| 6. What are the advantages and disadvantages of the use of coal cutting machines? | 20 |
| 7. Show by means of sketch the method of timbering you would employ in a 10 ft seam of friable coal. The coal seam pitches at 14 degrees, has a hard floor and soft shale roof. | 18 |
| 8. Sketch and describe how you would raise a shaft 10 ft. by 5 ft. between two seams 75 ft. apart. | 22 |
| 9. Describe clearly the various causes of accidents at the coal face which may occur to machine attendants. | 22 |
| 10. If a collar 6 inches in diameter is used on a roadway 8 ft. in width, what should be the diameter of the collar if the width is increased to 14 ft.? | 18 |

SECOND CLASS CERTIFICATES

Marks obtainable 200
Paper No. 4.

Marks required 100
Time—3½ hours.

MACHINERY

- | | Values |
|--|--------|
| 1. Give six reasons that render it difficult to maintain trailing cables in coal mines. | 22 |
| 2. Sketch and describe a common form of lubricator for introducing oil to a working steam engine cylinder through the cover or side, without allowing steam to escape. | 18 |
| 3. What factors have to be taken into consideration when calculating the horsepower of the motor required to operate a direct haulage? Calculate the horsepower of the motor required to haul a set of full cars at a speed of 7 miles per hour up an incline of 1 in 5. There are ten cars on the set, and each car weighs 1 ton. Assume a co-efficient of friction of 1/40. | 24 |
| 4. Give separate sketches showing:
(a) how the piston in an air drill receives its reciprocating action,
(b) how the rotary motion is imparted to the drill. | 18 |

5. Explain how you would determine the mechanical efficiency of a fan driven by means of a reciprocating steam engine. Enumerate the appliances you would use during the test.	22
6. The drum of a direct haulage is 5 feet in diameter, and the rope is $\frac{7}{8}$ inch in diameter. Calculate the number of coils of rope wound on the drum when hauling a set of cars a distance of 500 yards.	18
7. A slope is 2,600 ft. long, measured on a pitch of 30 degrees. What will be the horizontal distance, and what is the vertical height of the slope? What is the pressure on a pump discharging water from the bottom of this slope, disregarding the pipe friction?	20
8. What are the advantages and disadvantages of using electricity for power or other purposes in mines?	18
9. What is meant by the efficiency of an air compressor? State the losses that may occur when compressed air is used, and what means should be adopted to reduce these losses to a minimum.	22
10. What are compound engines? State their advantages and disadvantages.	18

SECOND CLASS CERTIFICATES

Marks obtainable 200
Paper No. 5.

Marks required 100
Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. The following notes refer to a traverse survey around a level quadrilateral enclosure.

Line	Azimuth	Distance in Feet
AB	050°30'	403
BC	158°00'	368
CD	215°30'	296
DA	319°30'	428

Plot this survey to a scale of 1 inch equals 100 feet, and from your drawing determine the area of the enclosure in square yards.

36

2. The area of a plot of land is shown on a plan as being 3.03 acres, and actually measures 16.22 square inches. State the scale on which the plan is drawn.

16

3. Calculate the number of tons of coal underlying one legal subdivision of land. The coal seam rises at 30 degrees to the horizontal and is 10 feet in thickness. Specific gravity of the coal to be taken as 1.4.

20

4. What do you understand by the term "magnetic declination"? Convert the following magnetic bearings to the corresponding geographical bearings, assuming the magnetic declination to be N9°45'W. 343°10'; 136°54'; 227°31'; 54°16'; 179°45'.

22

5. Explain the meaning of the terms fault, roll, dike, dip and line of strike. Show by sketch the difference between a normal and a reverse overlap fault.

22

6. Work out the following level notes and give the percentage gradient from Stations 1 to 6. Draw a profile of the levelling to a scale of 1 inch equals 100 feet for horizontals and 1 inch equals 10 feet for verticals. Find the length of a line joining Stations 1 and 6.

Sta.	Dist.	B.S.	H.I.	I.S.	F.S.	Elevation
1		3.6				4010.9
2	100			3.2		
3	100	5.6			2.9	
4	175	3.9			7.5	
5	100			4.7		
6	100				5.9	40

7. (a) Where are mine survey stations generally placed, and how are they afterwards recognized?
(b) A cross-measure rock tunnel is being driven on a gradient of 1 degree. State how you would arrange to have the tunnel kept on the desired gradient.

22

8. (a) Explain what you understand about "local attraction" of the compass needle.
(b) How would you determine at which station it existed.

22

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 1, 1954

THIRD CLASS CERTIFICATES

Marks obtainable 200
Paper No. 1.

Marks required 100
Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

1. What does Section 68 of the above Act state regarding washhouse accommodation?	22
2. What does Section 69 of the above Act state regarding first aid facilities?	22

3. What does Regulation 15 of the Regulations Covering Care and Use of Explosives state regarding the number of shots that can be fired at one time in coal?	22
4. What does Section 140 of the above Act state regarding conveyor roads and long-wall faces?	26
5. What does Regulation 20 state regarding first aid pocket kits?	30
6. What does Section 153 of the above Act state regarding the duties of shot-lighter?	28
7. What does Regulation 21(d) of the Regulations Covering Care and Use of Explosives state regarding misfire cardox shells?	30
8. What does Section 120 of the above Act state regarding the situation of auxiliary or booster fans?	20

THIRD CLASS CERTIFICATES

Marks obtainable 200
Paper No. 2.

Marks required 100
Time—2 hours.

VENTILATION

Values

1. In an airway 10½ feet wide and 6½ feet high, the velocity of the air current is 325 feet per minute. Calculate the total quantity of air passing per minute. Would this quantity be sufficient for 200 men on one shift?	26
2. What, in your opinion, is the best system of ventilation, exhausting or blowing? Explain the reason for your answer.	24
3. Sketch and describe a regulator as used in coal mines. Is there more than one type of regulator? If so, describe each type.	25
4. If you have a water gauge reading 1.75 inches, what would be the pressure? If the quantity of air in circulation is 20,000 c.f.m., what is the horsepower on the air?	24
5. What is meant by splitting the air current, and what advantages are obtained by splitting?	28
6. What elements compose atmospheric air, and what is the percentage of each by weight and volume?	26
7. 250 men are working on one shift in a coal mine. How many splits are required?....	20
8. Enumerate the appliances necessary in connection with the flow of air in mine roadways and workings, and the purpose of each appliance.	27

THIRD CLASS CERTIFICATES

Marks obtainable 200
Paper No. 3.

Marks required 100
Time—1½ hours.

PRACTICAL WORK

Values

1. How should a prop be placed to support the roof of an inclined seam? State reasons for your conclusion.	20
2. In the working of a flat seam by room and pillar method, rooms are driven 15 feet wide, cross-cuts 6 feet wide, the pillar blocks being 150 feet square. What percentage of coal is recovered by driving rooms and cross-cuts, and what percentage of coal is left in pillar blocks?	20
3. What is meant by the term "systematic timbering", and what are the advantages of same?	25
4. Just before making your regular inspection of the mine, you discovered a door had been accidentally left open, thus destroying the ventilation of the mine. How would you proceed to make your inspection? There are no men in the mine.	20
5. State how you would examine an electric cap lamp before giving it out for use in the mine.	20
6. You are in charge of repairing a length of main roadway in which the roof timbers are broken. State what precautions you would take before and during the repairing process.	25
7. A workman worked 18.5 days at \$4.50 per day. If his salary is increased 12 percent, how much money should he receive?	15
8. What is the object of using props and cap-pieces and props and bars or collars for roof supports?	25
9. In case of a squeeze occurring in a district under your charge, at what stage in its progress would you consider yourself justified in stopping operations and withdrawing the workmen?	30

THIRD CLASS CERTIFICATES

Marks obtainable 200
Paper No. 4.

Marks required 100
Time—2 hours.

MINE GASES, SHOT-FIRING, EXPLOSIVES AND SAFETY LAMPS

	Values
1. For what purpose are the barometer and thermometer used around mines?	18
2. Describe how carbon dioxide is detected in coal mines. What is the difference between carbon dioxide and free nitrogen?	30
3. Enumerate the advantages to be gained by firing shots by electricity and explain the use of a galvanometer in blasting.	25
4. Describe the various circumstances under which an explosive is likely to give off flame.	22
5. The quantity of air measured in the return airway of a mine is found to be 175,000 c.f.m., and gas detector readings show this return air to contain 1.25 percent of methane gas. Assuming no difference in temperature between intake and return, what is the quantity of fresh air entering this mine?	20
6. Give the name and specific gravity of each of the mine gases denoted by the following chemical symbols: CH ₄ ; CO; CO ₂ ; N ₂ ; H ₂ S.	30
7. What are the requirements of a flame type safety lamp with regard to safety?....	25
8. Give a detailed account in due order of what an authorized shot-lighter shall do from the time he arrives at the lamp-house until his shift is completed.	30

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 4, 1954

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200
Paper No. 1.

Marks required 120
Time—3½ hours.

MINE SURVEYING

	Values
1. The following notes were taken when correlating a surface and underground survey through two shafts. Calculate the corrected underground traverse.	
Surface Traverse	
Station	Bearing
No. 1 Shaft—A	N40°06'E
A—B	N79°45'E
B—C	N15°00'E
C—No. 2 Shaft	N74°50'E
Horizontal Dist.	
	219.87'
	299.76'
	150.07'
	255.22'
Underground Traverse	
Station	Bearing
No. 1 Shaft—D	S40°12'E
	(assumed)
D—E	N81°30'E
E—F	N63°15'E
F—G	N47°48'E
G—H	N61°15'E
H—No. 2 Shaft	N41°30'W
Horizontal Dist.	
	249.91'
	235.06'
	205.84'
	305.11'
	133.89'
	295.05'
2. What plans must be maintained at mines in accordance with the provisions of The Coal Mines Regulation Act, and what information is required on such plans?	30
3. An underground roadway is being driven level to form a locomotive haulage. The width of the roadway is 14 ft. and a curve turning through a horizontal angle of 45 degrees with a radius at the centre of the road of 150 ft. is now to be set off. Describe with sketches how you would set off and maintain the correct curve while this part of the roadway is being driven.	40
4. The sum of the perimeters of two square pieces of land is 1,080 ft., and the sum of their areas is 4,122 sq. yds. What are the lengths of their respective sides?	20
5. (a) Show how to derive a formula to express the relationship between the angle of true dip and the angle of apparent dip, and the horizontal angle between the direction of the true dip and the apparent dip.	15
(b) The strike of a coal seam has a bearing of N30°32'W, and the dip of the coal seam is 48°18' towards the south. What will be the bearing of a slope driven on an angle of 28°00'?	15
6. A dipping cross-measure drift was driven due east at a gradient of 1 in 2 to meet a seam of coal dipping due west at 1 in 5. The roof of the coal seam was met by the floor of the cross-measure drift at a distance of 181 feet, and the floor of the coal seam was encountered at a distance of 201 feet. What is the height of the seam?	20
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper.	10

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200
Paper No. 2.

Marks required 120
Time—3½ hours.

LEVELLING AND GEOLOGY

Values

1. Work out the following level notes assuming an elevation of 2,130 ft. at station 1. The notes were taken on the floor of a mine roadway, 6 ft. high and 8 ft. wide. A new grade is to be driven at a uniform gradient of 2 percent, the same dimensions as the present one. If the price for top brushing is \$8.00 per cu. yd., and for the bottom brushing \$10.00 per cu. yd., calculate the brushing cost on the new grade.

Station	Total Dist.	B.S.	I.S.	F.S.	
1	00'	5.25'			
2	100'		4.08'		
3	200'	5.02'		2.55'	
4	300'	3.37'		2.36'	
5	400'	4.72'		0.73'	
6	500'	4.61'		1.33'	
7	600'		3.05'		
8	700'		2.00'		
9	800'	2.87'		0.81'	
10	900'	4.31'		0.06'	
11	1000'			1.23'	50

2. Compose a list of the main geological formations in Alberta, and indicate those which are coal bearing. 20
3. In a level cross-measure drift being driven due East measurements made with an inclinometer on the floor of one of the beds show that the stratum dips due North at 1 in 8 and due East at 1 in 3. Calculate the direction and rate of full dip of the stratum. 55
4. A base line AB is 1,500 ft. long and the bearing from A to B is N83°10'E. The point C has been located by triangulation from this baseline, the angle BAC being 64°20', and the angle ABC is 62°00'. If the latitude and departure of point A is N 5000.07' and W 485.75', what is the latitude and departure of point C? 25
5. A water channel is 6 feet in width at the top and 4 feet wide at the bottom and 2 feet in depth. What would be the depth of water if the channel was half full? 20
6. Define and illustrate the following terms: Unconformable, syncline, monocline, reverse trough fault, contourline and intrusive dyke. 20
7. A profile of an underground levelling as required by rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 1, 1954

MINE ELECTRICIANS' CERTIFICATES
(FIRST CLASS)

Marks obtainable 200
Paper No. 1.

Marks required 120
Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

1. State the requirements of Regulation (k) of the Electrical Regulations as to how terminals, cable ends, etc. shall be constructed and installed. 30
2. State the duties and responsibilities of a mine electrician as defined in Regulation (o) subsection (2) of the Electrical Regulations. 35
3. What are the requirements of Regulation (j) of the Electrical Regulations regarding where electricity is distributed at a pressure higher than medium pressure? 35
4. What does Regulation (f) of the Electrical Regulations state regarding the installation of transformers or motor-generator sets underground in a mine? 35
5. What notices are required to be exhibited at certain locations in a mine? (Reg. (d) of the Electrical Regulations). 30
6. State the requirements of Regulation (h) of the Electrical Regulations regarding grounding of non-current carrying metal parts. 35

THE MINES DIVISION

MINE ELECTRICIANS' CERTIFICATES
(FIRST CLASS)Marks obtainable 200
Paper No. 2.Marks required 120
Time—2 hours.

THEORY

Values

1. What size of wire in circular mills should be used to transmit 160 amperes a distance of 500 feet with 8 volts drop (Direct Current)? 30
2. Consider a 3 wire 110/220 volt system with a load of 6200 watts on one side and 4000 watts on the other side. What would be the current in the neutral? 30
3. Twenty cells are to be charged from 250 volt mains. The internal resistance of each cell is .02 ohm and the e.m.f. during charge is 2.4 volts. Find the value of the resistance to be connected in series with the battery so that the charging rate will be 3 amperes. 40
4. A three-phase motor operating at 2200 volts draws 45 amperes. The power factor is .80. What is the horsepower of the motor? 30
5. The total connected lighting load of a panel supplied by a 4 wire, 3 phase 120/208 volt feeder is 15.5 kw. What size wire would you use for the 4 rubber covered conductors connecting the buses with the panel? Show how you arrive at your answer. 40
6. What apparatus causes low power factor and what methods are used for power factor correction? 30

MINE ELECTRICIANS' CERTIFICATES
(FIRST CLASS)Marks obtainable 200
Paper No. 3.Marks required 120
Time—3½ hours.

PRACTICAL WORK

Values

1. What is the function of the starting auxiliaries used in connection with fluorescent lamps, and what do they consist of? 20
2. (a) How is a switchboard meter usually connected to measure the voltage of a 2300 volt line? 10
(b) The voltage of a three-phase circuit is 220 volts and the current is 400 amperes. Make a sketch of the meter loop connections for installing a watt-hour meter. 10
3. The following alternating current motors are to be installed in a tipple with switches and motor starters installed in one switch room:
1—50 H.P., 440 volt motor, reduced voltage starter.
1—30 H.P., 440 volt motor, reduced voltage starter.
2—20 H.P., 440 volt motors, across the line starters.
2—10 H.P., 440 volt motors, across the line starters.
2— 5 H.P., 440 volt motors, across the line starters.
Draw a diagram showing how you would make this installation, stating or marking on the diagram the size of the following: Main feeds and conduit, switch for each motor, conduit and conductors for each motor. 30
4. Make a sketch of a lamp ground detector for use on a three-phase, 3 wire, low voltage circuit and show which lamp will be dark and which bright when one line of the circuit is grounded. 20
5. A used transformer is to be added to two single-phase transformers already in use in a three-phase bank. What checks or tests would you make before putting same into service? 20
6. Make a sketch of a ground leakage control set-up which will automatically cut off the supply of power in case of a fault to ground. 20
7. Describe an electric Methane Gas Detector, explaining how it operates to register the amount of gas in the air. 15
8. A bank of three transformers is connected Delta. If the line voltage is 2200 volts and the line current is 100 amperes, what would be:
(a) the primary voltage across each transformer? 10
(b) the primary current going through each transformer? 10
9. Explain how you would dry out a transformer and what test you would make before putting same into service. 20
10. Make a diagram showing how four bells may be connected to ring individually and have one extra contactor to make all four bells ring simultaneously. 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 1, 1954

MINE ELECTRICIANS' CERTIFICATES
(SECOND CLASS)Marks obtainable 200
Paper No. 1.Marks required 100
Time—3½ hours.

THE COAL MINES REGULATION ACT

	Values
1. What are the requirements of the Electrical Regulations with reference to switchgear, cable ends, cable joints, etc.? (Reg. (k)).	15
2. State the requirements of Regulation (g) of the Electrical Regulations in connection with apparatus and conductors, their size, how constructed, etc.	15
3. State the requirements of Regulation (h) of the Electrical Regulations regarding grounding or earthing.	20
4. What does Regulation (j) state regarding where electricity is distributed at a pressure higher than medium pressure?	15
5. All cables other than flexible cables shall comply with what requirements? (Reg. (m) of the Electrical Regulations).	30
6. State the duties and responsibilities of a mine electrician as defined in Regulation (o) subsection (2) of the Electrical Regulations.	20
7. What are the requirements of Regulation (p) of the Electrical Regulations regarding part of a mine where inflammable gas is liable to occur?	25
8. What notices are required to be posted in a mine? (Reg. (d) of the Electrical Regulations).	15
9. State the requirements of Regulation (r) dealing with electric signalling.	15
10. State the requirements of Regulation (l) of the Electrical Regulations with respect to switchgear for motors and circuits in a mine.	30

MINE ELECTRICIANS' CERTIFICATES
(SECOND CLASS)Marks obtainable 200
Paper No. 2.Marks required 100
Time—3½ hours.

THEORY AND PRACTICAL WORK

	Values
1. Explain how you would use a voltmeter to find out if one line of a three-phase ungrounded system was grounded.	20
2. A 250 volt direct current motor draws 40 amperes at full load. What is the horsepower of the motor?	20
3. You are called into a mine to start a stalled A.C. squirrel cage induction motor. Explain what might be the trouble and how you would locate and remedy same.	20
4. If you had to parallel two 220 volt, three-phase circuits, explain how you would determine which wires to tie together.	20
5. Explain what action you would take if you saw a man apparently hung up on a live wire.	20
6. (a) What maintenance should magnetic across-the-line starters receive?	10
(b) What maintenance should reduced voltage (compensators) starters receive?	10
7. Would it be practical to operate a wound rotor induction motor under load with only a portion of its starting resistance cut out? Give reasons for your answer.	20
8. In inspecting explosion proof electrical apparatus, what would you check on?	20
9. (a) How does the power in a circuit vary with the current?	10
(b) How does the resistance of a conductor vary with its cross-sectional area?	10
10. What size of switch and fuses would you install ahead of an across-the-line motor starter when installing a 20 horsepower, 220 volt squirrel cage motor?	20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 4, 1954

STRIP MINE MANAGERS' CERTIFICATES

Marks obtainable 200
Paper No. 1.Marks required 120
Time—3½ hours.

THE COAL MINES REGULATION ACT

	Values
1. What does Section 8(a) of the above Act state regarding the disposal of mine water and water from mine buildings?	20

2. What are the provisions of Section 103 of the above Act with regard to the powers of the Director of Mines in cases of wasteful mining operations? 25

3. What does Regulation 7 of the Strip Mine Regulations state regarding transportation, storage and use of explosives? 20

4. What does Regulation (g) of the Electrical Regulations state regarding the installation of apparatus and conductors of sufficient size for the work they may be called upon to do? 25

5. What does Regulation 17 of the Strip Mine Regulations state regarding operators of shovels, draglines and tractors? 20

6. What does Regulation 22 of the Strip Mine Regulations state regarding the accumulation of water? 16

7. What does Regulation 23 of the Strip Mine Regulations state regarding test hole or pit? 15

8. What does Regulation 15 of the Strip Mine Regulations state regarding shots fired by electricity? 24

9. What does Regulation 11 of the Strip Mine Regulations state in connection with drilling and blasting operations? 15

10. What does Section 97 of the above Act state with regard to abandonment plans?.... 20

STRIP MINE MANAGERS' CERTIFICATES

Marks obtainable 200
Paper No. 2.

Marks required 120
Time—3½ hours.

THEORY AND PRACTICAL WORK

Values

1. Briefly describe the system of land division in Alberta. Define with diagrams the terms township, range, etc. 20

2. List possible causes of misfires in blasting. What advantages are claimed for short-period detonators? Show a pattern of shooting with arrangements of holes, and give a ratio of powder used to rock blast. 22

3. On a hoist of a shovel, the single line pull is 17,000 lbs. What size of improved plough steel rope would you require to allow a safety factor of 5? If the safety factor was 10, what size rope would be required? 18

4. 500 cubic feet of free air is compressed to 80 cubic feet with the temperature maintained constant by cooling. What would the gauge pressure be at an altitude of 5400 feet? 18

5. Itemize what you consider the advantages and disadvantages of strip mining of coal. What is the economic strip ratio, and what factors determine the ratio? 20

6. A cross section of a box-type pit, working a steeply inclined seam 60 ft. thick when measured horizontally, shows a horizontal width of 500 ft. at the pit top, with uniformly sloped sides to a vertical depth of 200 ft. where the pit bottom is 120 ft. wide.

(a) Calculate the ratio of coal to rock.

(b) What tonnage of coal is available if the pit is 1,000 ft. long and the specific gravity of the coal is 1.3?

(c) With no additional rock work, it is decided to drag-line the coal at the pit bottom a vertical depth of 40 ft. What will be the strip ratio for the whole pit, and what coal is recovered by the drag-line? 25

7. Two machines working together move a certain amount of rock in two days. Working separately, No. 1 machine does the work in 3 days less than No. 2 machine. How long does it take No. 1 to do the work? 15

8. What is meant by trigonometrical levelling? What are its advantages? Determine the elevations of stations 2 and 3.

Sta.	Sight	Slope Dis.	Vert. Angle	H.I.	I.S.	Elev. 1000
1						
2	1-2	952.8'	-32°14'	+4.23'	+6.17	
3	2-3	30.66'	+40°18'	+5.06'	+4.26	

20

9. Determine graphically the direction and dip of seam from the information of the following boreholes:

	Elevation	Depth of Coal	Location
A	4500'	60'	
B	4530'	110'	500 ft. East of A
C	4540'	140'	400 ft. South of A

22

10. Alberta coals are classed into five groups. List the important areas in each group, giving types and characteristics of the coals. 20

PARTICULARS OF OPERATING MINES DURING 1954 BY AREAS

ARDLEY AREA

R. R. Straub—Mine No. 255

Mine Office: Alix, Alberta.
 Mine Manager: Robert R. Straub.
 Mine Surveyor: David Jones.
 Foreman: R. R. Straub.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 20 ft. to 34 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: W $\frac{1}{2}$ of L.S. 11 & 12,
 Sec. 17, Twp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 734.
 C.N.R. and Truck Mine.
 Registered Trade Name: Conger Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1910.

Allyn Mann Construction Co.
Mine No. 809

Mine Office: Alix, Alberta.
 General Manager: H. Allyn Mann.
 Mine Manager: H. Walper.
 Mine Surveyor: David Jones.
 Thickness of Seam: 3 $\frac{1}{4}$ ft.
 Thickness of Cover: 25 ft. to 35 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16 of Sec. 33, Twp.
 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Numbers: C.P.R. 584,
 475.
 C.N.R. and Truck Mine.
 Registered Trade Name: Eclipse Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1919.

John Lynass—Mine No. 1734

Authorized Capital: \$25,000.00.
 Mine Office: Delburne, Alberta.
 Mine Manager: John Lynass.
 Mine Surveyor: David Jones.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 2 and 7 of Sec.
 20, Twp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Numbers: 6088, 6159.
 Truck Mine.
 Registered Trade Name: Lynass Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1953.

BIG VALLEY AREA

Messrs. Anderson, Steffensen & Minke
Mine No. 1661

Mine Office: Elnora, Alberta.
 Mine Manager: A. Anderson.
 Mine Surveyor: David Jones.
 Overman: A. Anderson.
 Fireboss: A. Anderson.
 Thickness of Seam: 4 ft. 10 in.
 Thickness of Cover: 65 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6 ft. Depth of Slope: 20 ft.
 Location of Mine: L.S. 2 and 7 of Sec. 13,
 Twp. 36, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 691.
 Truck Mine.
 Registered Trade Name: Elnora Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1947.

Claude Blair & Leonard A. Watson
Mine No. 1716

Name of Treasurer: Claude Blair.
 Head Office: Big Valley, Alberta.
 Mine Office: Delburne, Alberta.
 General Manager: Claude Blair.
 Mine Manager: Leonard A. Watson.
 Mine Surveyor: David Jones.
 Overman: Leonard A. Watson.

Thickness of Seam: 4 ft.
 Thickness of Cover: 22 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16 of Sec. 13, Twp.
 36, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 708.
 Registered Trade Name: Watson & Blair
 Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

BROOKS AREA

Kleenbirn Collieries Limited
Mine No. 1404

Authorized Capital: \$250,000.00.
 Name of President: J. G. Westgate.
 Name of Directors: J. G. Westgate, R.
 M. Balfour.
 Name of Secretary-Treasurer: R. M. Bal-
 four.
 Mine Office: Eyremore, Alberta.
 Mine Manager: J. G. Westgate.
 Mine Surveyor: J. F. Hamilton.
 Overman: W. E. Herrick.
 Thickness of Seam: 4 ft. to 9 ft.
 Thickness of Cover: 32 ft. to 60 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: Sec. 15, Twp. 17, Rge.
 17, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 683.
 C.P.R. and Truck Mine.
 Registered Trade Name: Birnwel and
 Kleenbirn Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1932.

Coral Coals Limited—Mine No. 1672

Authorized Capital: \$20,000.00.
 Name of President: Lorraine Patrick.
 Name of Directors: L. Patrick, H. P.
 Hartley, O. K. Reishus, A. C. Hnatyshyn.
 Name of Secretary: Hilda M. Forsey.
 Name of Treasurer: A. C. Hnatyshyn.
 Head Office: 2410 - 4th St. S.W., Calgary,
 Alberta.
 Mine Office: Cecil, Alberta.
 Mine Manager: O. K. Reishus.
 Mine Surveyor: J. F. Hamilton.
 Foreman: Edward Oliver.
 Thickness of Seam: 7 ft.
 Thickness of Cover: 45 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: S.E. $\frac{1}{4}$ of Sec. 3, Twp.
 14, Rge. 13, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 706.
 C.P.R. Mine.
 Registered Trade Name: Rolling Hills Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

CAMROSE AREA

S. H. Burnstad—Mine No. 724

Authorized Capital: \$25,000.00.
 Name of Treasurer: B. Burnstad.
 Mine Office: Ohaton, Alberta.
 Mine Manager: R. S. Burnstad.
 Mine Surveyor: David Jones.
 Foreman: R. S. Burnstad.
 Fireboss: R. W. Burnstad.
 Thickness of Seam: 5 $\frac{1}{2}$ ft.
 Thickness of Cover: 15 ft. to 18 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: S.W. $\frac{1}{4}$ Sec. 14, Twp.
 48, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5525.
 Truck Mine.
 Registered Trade Name: Burnstad Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1917.

A. A. Campbell & C. A. Fergstad
Mine No. 1055

Mine Office: Round Hill, Alberta.
 Mine Manager: Chas. Fergstad, Sr.
 Mine Surveyor: David Jones.
 Overman: Chas. Fergstad, Sr.
 Fireboss: Chas. Fergstad, Sr.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 15 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: S.E. $\frac{1}{4}$ of Sec. 30,
 Twp. 48, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5917.
 Truck Mine.
 Registered Trade Name: Eskimo Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

George Shute & Partners
Mine No. 1524

Authorized Capital: \$2,000.00.
 Mine Office: Dinant, Alberta.
 Mine Manager: George Shute.
 Mine Surveyor: David Jones.
 Overman: George Shute.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 14 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: Pts. L.S. 8 and 9, Sec.
 7, Twp. 48, Rge. 19, W. 4th Mer.
 Truck Mine.
 Coal Mining Lease Number: C.P.R. 546.
 Registered Trade Name: Demay Collieries
 Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1937.

Alberta Coal Company Limited
Mine No. 1603

Authorized Capital: \$200,000.00.
 Name of President: D. Twomey, Jr.
 Name of Secretary: A. E. Burgess.
 Mine Office: Camrose, Alberta.
 General Manager: D. Twomey.
 Mine Manager: R. B. Munn.
 Mine Surveyor: P. R. Buesnel.
 Thickness of Seam: 4 ft. to 6 ft.
 Thickness of Cover: 18 ft. to 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 6, 11, 10, Sec. 29,
 Twp. 46, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 529.
 C.N.R., C.P.R. and Tuck Mine.
 Registered Trade Name: Camrose Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1943.

CARBON AREA

Alfred Fox—Mine No. 53

Mine Office: Carbon, Alberta.
 Mine Manager: Alfred Fox.
 Mine Surveyor: David Jones.
 Overman: A. Fox.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 185 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: S.W. $\frac{1}{4}$ of L.S. 3, Sec.
 14, Twp. 29, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 516 S.L. and
 524 S.L.
 Truck Mine.
 Registered Trade Name: Carbon Sunrise
 Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1898.

A. A. McArthur—Mine No. 194

Mine Office: Box 47, Carbon, Alberta.
 Mine Manager: A. A. McArthur.
 Mine Surveyor: W. E. G. Hall.
 Foreman: A. R. Sommerville.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.

Thickness of Cover: 25 ft. to 45 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 6, 7, 8, 9, 10, 11
 and 14 of Sec. 9, Twp. 31, Rge. 22, W.
 4th Mer. N.E. $\frac{1}{4}$ of Sec. 4, Twp. 31,
 Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: Freehold.
 C.P.R. and Truck Mine.
 Registered Trade Name: Knee Hill Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1909.

East Trochu Coal Co.—Mine No. 710

Mine Office: Trochu, Alberta.
 Mine Manager: L. G. Yard.
 Mine Surveyor: David Jones.
 Overman: L. G. Yard.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 10 of Sec. 14, Twp.
 33, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5320.
 Truck Mine.
 Registered Trade Name: Troalta Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1917.

Ben Pickering & Sons—Mine No. 817

Mine Office: Ghost Pine Creek, Alberta.
 Mine Manager: Ben Pickering.
 Mine Surveyor: David Jones.
 Foreman: Ben Pickering.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 2 of Sec. 6, Twp.
 31, Rge. 21, W. 4th Mer.
 Coal Mining Lease Numbers: 5510, 414 R.A.
 Truck Mine.
 Registered Trade Name: Orkney Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1919.

Eric Ressig—Mine No. 921

Mine Office: Trochu, Alberta.
 Mine Manager: E. Ressig.
 Mine Surveyor: David Jones.
 Overman: E. Ressig.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 85 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7 ft.
 x 5 ft. Depth of Slope: 2400 ft.
 Location of Mine: L.S. 15 and 16 of Sec.
 14, Twp. 33, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5464.
 Truck Mine.
 Registered Trade Name: Meadow Bank
 Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1921.

East Carbon Coal Co. Ltd.
Mine No. 1060

Name of President: Ernest Fox.
 Name of Directors: Ben Fox, Ernest Fox,
 William Fox, Mrs. B. Lowther.
 Mine Office: Carbon, Alberta.
 Mine Manager: B. Fox.
 Mine Surveyor: D. Jones.
 Overman: Ben Fox.
 Thickness of Seam: 4 ft. 3 in.
 Thickness of Cover: 200 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6 ft. x 8 ft. Depth of Slope: 100 ft.
 Location of Mine: L.S. 12, Sec. 7, Twp.
 29, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5513.
 C.P.R. and Truck Mine.
 Registered Trade Name: Reliable Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1922.

C. C. Campbell & Son—Mine No. 1226

Mine Office: Trochu, Alberta.
 Mine Manager: C. C. Campbell.
 Mine Surveyor: D. Jones.
 Overman: C. C. Campbell.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 100 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: N.E. $\frac{1}{4}$ of Sec. 29,
 Twp. 33, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 547.
 Truck Mine.
 Registered Trade Name: Campbell Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1926.

**H. J. Halbert & F. Beierle
Mine No. 1283**

Mine Office: Trochu, Alberta.
 Mine Manager: H. J. Halbert.
 Mine Surveyor: D. Jones.
 Overman: H. J. Halbert.
 Thickness of Seam: 5 ft. 9 in.
 Thickness of Cover: 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Air Shaft. Size
 of Shaft: 4 ft. x 4 ft. Depth of Shaft:
 90 ft.
 Location of Mine: L.S. 8, Sec. 14, Twp.
 33, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 6125.
 Truck Mine.
 Registered Trade Name: H-B Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1928.

Balogh Brothers—Mine No. 1359

Mine Manager: A. Balogh.
 Mine Surveyor: David Jones.
 Overman: A. Balogh.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 200 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 5 ft. x 8 ft. Depth of Slope: 125 ft.
 Location of Mine: L.S. 16, Sec. 12, Twp.
 29, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 234 M.S.
 Truck Mine.
 Registered Trade Name: Arctic Coal Co.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1931.

Nuttall & Davidson—Mine No. 1499

Mine Office: Three Hills, Alberta.
 Mine Manager: F. Nuttall.
 Mine Surveyor: David Jones.
 Foreman: F. Nuttall.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.
 Thickness of Cover: 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 1 of Sec. 9, Twp.
 31, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5257.
 Truck Mine.
 Registered Trade Name: Fire King Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1936.

Nottall Brothers—Mine No. 1740

Mine Office: Three Hills, Alberta.
 Mine Manager: F. Nottall.
 Mine Surveyor: David Jones.
 Foreman: F. Nottall.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.
 Thickness of Cover: 35 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 14 of Sec. 4, Twp.
 31, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 6121.
 Truck Mine.
 Registered Trade Name: New Ghost Pine
 Creek Coal Mine.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1954.

CASCADE AREA**The Canmore Mines Ltd.—Mine No. 2**

Authorized Capital: \$1,000,000.00.
 Name of President: Edmund Hayes.
 Name of Directors: E. Hayes, J. E. A.
 Macleod, A. J. Macmillan, Wm. Wilson,
 A. R. Walter, Geo. F. Jewett, L. S.
 Headley, R. Morris.
 Name of Secretary: J. E. A. Macleod.
 Name of Treasurer: Louis S. Headley.
 Mine Office: Canmore, Alberta.
 General Manager: William Wilson.
 Mine Manager: V. Mrokwia.
 Mine Surveyor: W. J. Riva.
 Overmen: J. Brown, A. A. Fox, S. Lou-
 hela.
 Firebosses: W. Bell, A. Baroni, A. Knud-
 son, J. Crawford, C. Foster, J. Riva, R.
 Jackson, J. James, A. Kowal, H. Mus-
 grove, J. Miskow, B. Rogers, H. Paav-
 ola, A. Shellan, P. Zboya.
 Thickness of Seam: 6 ft., 8 ft., 10 ft.
 Thickness of Cover: 0 to 2000 ft.
 Inclination of Seam: 10 to 35 Degrees.
 Form of Opening: Slope. Size of Slope:
 16 ft. x 8 ft. Depth of Slope: Rock
 Tunnel: 1000 ft. No. 4 Seam: 2400 ft.
 No. 5 Seam: 1100 ft.
 Location of Mine: N.E. Pt. of L.S. 1,
 Sec. 29, Twp. 24, Rge. 10, W. 5th Mer.
 Coal Mining Lease Numbers: SL 130, 131,
 5847, 5557, 5989.
 C.P.R. and Truck Mine.
 Registered Trade Name: Canmore Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1891.

CASTOR AREA**J. Tyrlik & S. Musat—Mine No. 251**

Mine Office: Heisler, Alberta.
 Mine Manager: Joe Tyrlik.
 Mine Surveyor: David Jones.
 Overman: Joe Tyrlik.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.
 Thickness of Cover: 58 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6 $\frac{1}{2}$ ft. x 6 ft. Depth of Slope: 155 ft.
 Location of Mine: L.S. 16 of Sec. 28,
 Twp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Numbers: 5822, 5530.
 C.N.R. Mine.
 Registered Trade Name: Diamond G. Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1910.

James Chiswick—Mine No. 291

Mine Office: Gadsby, Alberta.
 Mine Manager: James Chiswick.
 Mine Surveyor: David Jones.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.
 Thickness of Cover: 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: S. $\frac{1}{2}$ of L.S. 11, Sec.
 28, Twp. 39, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 5093.
 Truck Mine.
 Registered Trade Name: Sunset Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1911.

O. V. Remillard—Mine No. 902

Name of President: O. V. Remillard.
 Name of Secretary: Theresa Blasius.
 Mine Office: Castor, Alberta.
 Mine Manager: O. V. Remillard.
 Mine Surveyor: David Jones.
 Overman: O. V. Remillard.
 Thickness of Seam: 4 ft. 10 in.
 Thickness of Cover: 49 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6 ft x 7 ft. Depth of Slope: 127 ft.
 Location of Mine: L.S. 15 and 16 of Sec.
 33, Twp. 37, Rge. 14, W. 4th Mer.

Coal Mining Lease Numbers: 186, 646.
Truck Mine.
Registered Trade Name: Remillard Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1921.

Battle River Coal Co. Ltd.
Mine No. 1046

Authorized Capital: \$1,000,000.00.
Name of President: J. A. Brusset.
Name of Directors: J. A. Brusset, E. Bernard, J. Terray, J. A. Scott, M. A. Dhavernas, E. Connelly, E. W. Costello.
Name of Secretary: J. A. Scott.
Name of Treasurer: H. M. Dancy.
Head Office: Blairmore, Alberta.
Mine Office: Halkirk, Alberta.
General Manager: W. Bird.
Mine Manager: E. J. Panchysyn.
Mine Surveyor: E. J. Panchysyn.
Overman: W. Jamieson.
Blaster: J. Ainsworth.
Thickness of Seam: 6 ft. to 7 ft.
Thickness of Cover: 45 ft. to 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 6, 11, 12, 13 of Sec. 20, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Numbers: 5719, 5433, 5766.
Truck Mine.
Registered Trade Name: Cordel & Vesta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1922.

Charles Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
Mine Surveyor: David Jones.
Overman: Jim Strader.
Thickness of Seam: $5\frac{1}{2}$ ft.
Thickness of Cover: 40 ft. to 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 4 of Sec. 17, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 41.
Truck Mine.
Registered Trade Name: Esperanze Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1922.

B. J. Gerla & W. Runge
Mine No. 1248

Mine Office: Donalda, Alberta.
Mine Manager: B. J. Gerla.
Mine Surveyor: David Jones.
Overman: B. J. Gerla.
Fireboss: W. Runge.
Thickness of Seam: $5\frac{1}{2}$ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 85 ft.
Location of Mine: L.S. 10 and 11 of Sec. 29, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: SL 534.
C.N.R. and Truck Mine.
Registered Trade Name: Success Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1926.

Oscar Olson—Mine No. 1435

Mine Office: Edberg, Alberta.
Mine Manager: O. Olson.
Mine Surveyor: David Jones.
Overman: O. Olson.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 45 ft.
Location of Mine: N. $\frac{1}{2}$ L.S. 6, S. $\frac{1}{4}$ L.S. 11 of Sec. 2, Twp. 44, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5122.
Truck Mine.
Registered Trade Name: Rosebush Coal.

Character of Coal: Sub-bituminous.
Date of Opening: 1933.

Forestburg Collieries Ltd.—Mine No. 1578

Authorized Capital: \$20,000.00.
Name of President: Mayne Reid, Q.C.
Name of Directors: R. M. Jenkinson, C. M. Guthrie, R. F. Barrow, W. O. Parlee, M. Reid, Jas. Taylor.
Name of Secretary-Treasurer: P. J. Cullimore.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Box 60, Forestburg, Alberta.
General Manager: J. A. Stuart.
Mine Manager: Homer F. Bish.
Mine Surveyor: Robert Dunn.
Blaster: Thomas Mitchinson.
Thickness of Seam: 8 ft.
Thickness of Cover: 37 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.W. $\frac{1}{2}$ Sec. 6, Twp. 41, Rge. 16, W. 4th Mer.
Coal Mining Lease Numbers: 5365, 5624.
C.N.R. and Truck Mine.
Registered Trade Name: Diplomat Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1941.

J. J. Mills—Mine No. 1587

Mine Office: Heisler, Alberta.
Mine Manager: J. R. Mills.
Mine Surveyor: David Jones.
Overman: J. R. Mills.
Thickness of Seam: $5\frac{1}{2}$ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 58 ft.
Location of Mine: L.S. 6, Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5425.
Truck Mine.
Registered Trade Name: Eagle Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1942.

Stettler Coal Company Limited
Mine No. 1614

Authorized Capital: \$150,000.00.
Name of President: M. H. Neilson.
Name of Directors: M. H. Neilson, M. C. Neilson.
Name of Secretary: Lloyd Williams.
Mine Office: Stettler, Alberta.
General Manager: M. H. Neilson.
Mine Foreman: M. H. Neilson.
Mine Surveyor: D. Jones.
Thickness of Seam: $5\frac{1}{2}$ ft. to 6 ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. $\frac{1}{2}$ L.S. 16, Sec. 26, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 2900.
Truck Mine.
Registered Trade Name: All-Fire Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

N. MacPherson & D. Kroetch
Mine No. 1689

Mine Office: Heisler, Alberta.
Mine Manager: N. MacPherson.
Mine Surveyor: D. Jones.
Thickness of Seam: 5 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 8 ft. Depth of Slope: 40 ft.
Location of Mine: L.S. 8 of Sec. 21, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 685.
Truck Mine.
Registered Trade Name: Black Jade Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1949.

**Dolanz, Dolanz & Strickland
Mine No. 1702**

Authorized Capital: \$20,000.00.
 Name of Directors: Stephen Dolanz, Iggie Dolanz.
 Mine Office: Heisler, Alberta.
 Mine Surveyor: David Jones.
 Overman: Iggie Dolanz.
 Thickness of Seam: 5 ft. 3 in.
 Thickness of Cover: 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 270 ft.
 Location of Mine: L.S. 3 and 4, Sec. 27, Twp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 692.
 Truck Mine.
 Registered Trade Name: Palace Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1949.

Wisla Brothers—Mine No. 1713

Mine Office: Rosalind, Alberta.
 Mine Manager: Michael Wisla.
 Mine Surveyor: David Jones.
 Overman: Michael Wisla.
 Thickness of Seam: 4½ ft.
 Thickness of Cover: 60 ft. to 100 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 5 ft. x 7 ft. Depth of Shaft: 60 ft.
 Location of Mine: L.S. 1 and 2, Sec. 8, Twp. 43, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: H.B.C. 152.
 Truck Mine.
 Registered Trade Name: Rosalind Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

Messrs. Jones & Binder—Mine No. 1718

Mine Office: Donaldal, Alberta.
 Mine Manager: C. Binder.
 Mine Surveyor: D. Jones.
 Overman: C. Binder.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 125 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 125 ft.
 Location of Mine: L.S. 9, 10, 15 and 16, Sec. 29, Twp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5969.
 Truck Mine.
 Registered Trade Name: Centennial Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

Buckle Brothers—Mine No. 1736

Mine Office: Donaldal, Alberta.
 Mine Manager: L. Buckle.
 Mine Surveyor: David Jones.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 60 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Tunnel.
 Location of Mine: L.S.D. 14 and 15, Sec. 28, Twp. 41, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 6149.
 Truck Mine.
 Registered Trade Name: Black Emerald Mine.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1954.

CHAMPION AREA**Carlo Travaglia—Mine No. 1137**

Authorized Capital: \$7,000.00.
 Mine Office: Champion, Alberta.
 Mine Manager: Carlo Travaglia.
 Mine Surveyor: J. F. Hamilton.
 Overman: Carlo Travaglia.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 75 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 4½ ft. x 4½ ft. Depth of Slope: 132½ ft.

Location of Mine: L.S. 2 and 3, Sec. 4, Twp. 16, Rge. 23, W. 4th Mer.
 Coal Mining Lease Numbers: 5523, 5738.
 Truck Mine.
 Registered Trade Name: Smith Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1924.

P. Fontana & Sons—Mine No. 1509

Mine Office: Champion, Alberta.
 Mine Manager: Peter Fontana.
 Mine Surveyor: J. F. Hamilton.
 Overman: Peter Fontana.
 Fireboss: Elmo Fontana.
 Thickness of Seam: 3½ ft. to 4½ ft.
 Thickness of Cover: 65 ft.
 Inclination of Seam: 22 degrees.
 Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 140 ft.
 Location of Mine: L.S. 13, Sec. 34, Twp. 15, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5290.
 Truck Mine.
 Registered Trade Name: Champion Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1937.

COALSPUR AREA**Canadian Collieries (Dunsmuir) Ltd.
Mine No. 771**

Authorized Capital: \$7,500,000.00.
 Name of President: Norman R. Whittall.
 Name of Directors: F. B. Brown, F. R. Graham, F. McMahon, H. R. Plommer, N. R. Whittall, C. F. Lowson.
 Name of Secretary-Treasurer: S. V. Isaacson.
 Head Office: 1433 Marine Bldg., Vancouver, B.C.
 Mine Office: Foothills, Alberta.
 General Manager: E. O. T. Simpson.
 Mine Manager: W. Morris.
 Mine Surveyor: E. Olynck.
 Overman: E. Griffiths.
 Firebosses: P. Nicholson, D. Jones, W. Hluska, I. McLaren, R. Marshall.
 Thickness of Seam: 8½ ft.
 Thickness of Cover: 750 ft.
 Inclination of Seam: 20 degrees.
 Form of Opening: Slope. Size of Slope: 10 ft. x 8 ft. Depth of Slope: 2400 ft.
 Location of Mine: L.S. 2, 7, 10, and 15, Sec. 24, Twp. 47, Rge. 20, W. 5th Mer.
 Coal Mining Lease Numbers: 5344, 5343.
 C.N.R. Mine.
 Registered Trade Name: Foothills Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1918.

**Canadian Collieries (Dunsmuir) Ltd.
Mine No. 846**

Authorized Capital: \$1,000,000.00.
 Name of President: N. R. Whittall.
 Name of Directors: F. R. Graham, N. R. Whittall, H. R. Plommer, F. McMahon, F. B. Brown, C. F. Lowson.
 Name of Secretary-Treasurer: S. V. Isaacson.
 Head Office: Cumberland, B.C.
 Mine Office: Mercoal, Alberta.
 General Manager: E. O. T. Simpson.
 Mine Manager: R. G. Erikson.
 Mine Surveyor: J. Sodmont.
 Overman: J. Rochester, A. McQueen, A. McIntyre.
 Firebosses: J. Parry, J. Lidgett, J. Denholm, C. Zayezierski, W. Mazur, J. Keef, C. McMurtry, K. Wheat, F. Brown, S. Protti.
 Thickness of Seam: 11 ft.
 Thickness of Cover: 0 to 800 ft.
 Inclination of Seam: 20 to 50 degrees.
 Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 1800 ft.
 Location of Mine: L.S. 4, Sec. 25, Twp. 48, Rge. 22, W. 5th Mer.
 Coal Mining Lease Number: 1605.

C.N.R. and Truck Mine.
Registered Trade Name: McLeod River
Hard Coal.
Character of Coal: Bituminous.
Date of Opening: 1950.

Sterling-Coal Valley Mining Co. Ltd.
Mine No. 1002

Authorized Capital: \$1,000,000.00.
Name of President: C. B. Munson.
Name of Directors: W. F. Stevenson, S. W. Field, E. W. Roberts, C. B. Munson.
Name of Secretary-Treasurer: W. C. Willetts.
Head Office: 210 Barry Building, Edmonton, Alberta.
Mine Office: Coal Valley, Alberta.
Mine Manager: A. A. Fraser.
Mine Surveyor: A. A. Fraser.
Overman: M. Fortin.
Blaster: S. Balych.
Thickness of Seam: 250 ft.
Thickness of Cover: 20 ft. to 110 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Strip Mine.
Location of Mine: W. $\frac{1}{2}$ of L.S. 10, Sec. 25, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Numbers: 5414, 5415.
C.N.R. Mine.
Registered Trade Name: Cova Coal.
Character of Coal: Bituminous.
Date of Opening: 1922.

Bryan Mountain Coal Company Limited
Mine No. 1157

Authorized Capital: \$3,000,000.00.
Name of President: Frank E. Ruben.
Name of Directors: F. E. Ruben, R. F. Ruben, C. H. Reid, H. P. Hotchkiss, F. C. Quinn.
Name of Secretary-Treasurer: C. H. Reid.
Head Office: 515 - 8th Avenue West, Calgary, Alberta.
Mine Office: Mile 32, Robb, Alberta.
Agent: D. F. Robins.
Fireboss: R. Voynovich.
Thickness of Seam: $8\frac{1}{2}$ ft.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: 36 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 760 ft.
Location of Mine: Pts. of Sec. 15, 16, 21, 22, Twp. 49, Rge. 21, W. 5th Mer.
Coal Mining Lease Numbers: 5315, 5757, 5758.
C.N.R. and Truck Mine.
Registered Trade Name: Bryan Mountain Hard Coal.
Character of Coal: Bituminous.
Date of Opening: 1950.

CROWSNEST AREA

West Canadian Collieries—Mine No. 87

Name of President: Mr. E. Bernard.
Name of Directors: Messrs. Blondel, Brusset, Cavois, Beaubien, Dunning, Faure, Houze de L'Aulnoit, Wattinne, Terray.
Name of Secretary: Mr. G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London E. C. 2, England.
Mine Office: Bellevue.
General Manager: Mr. W. Ward.
Mine Manager: J. J. Kubin.
Mine Surveyor: J. R. Glover.
Overmen: A. Goodwin, S. Comin.
Firebosses: S. Kubin, E. Coates, J. Michaluk, Chas. Olitch, A. Grant, Chas. Young, J. J. Senycz, J. Radford, A. Emmerson.
Thickness of Seam: 0 ft. to 20 ft.
Thickness of Cover: 0 ft. to 1000 ft.
Inclination of Seam: 0 ft. to 90 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 9 and 10, Sec. 20, Twp. 7, Rge. 3, W. 4th Mer.

Coal Mine Lease Number: M.S. 231.
C.P.R. and Truck Mine.
Registered Trade Name: Bellevue Coal.
Character of Coal: Bituminous.
Date of Opening: 1903.

Coleman Collieries Limited—Mine No. 88

Authorized Capital: \$1,210,000.00.
Name of President: John Gordon.
Name of Directors: F. J. Harquail, H. Wilton-Clark, John Gordon, C. E. Tait, E. Richardson.
Name of Secretary: R. Upton.
Name of Treasurer: E. Richardson.
Mine Office: Coleman, Alberta.
General Manager: H. Wilton-Clark.
Mine Manager: H. Wilton-Clark.
Mine Surveyor: A. E. Graham.
Thickness of Seam: 1 ft. to 12 ft.
Thickness of Cover: 0 to 2300 ft.
Inclination of Seam: 30 degrees West.
Form of Opening: Slope, 22 degrees. Size of Slope: 12 ft. x 8 ft. Depth of Slope: 4000 ft.
Location of Mine: N.W. $\frac{1}{4}$ of Sec. 8, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 2886.
C.P.R. and Truck Mine.
Registered Trade Name: Internation Coal.
Character of Coal: Bituminous.
Date of Opening: 1903.

Beaver Mines Coal Co.—Mine No. 199

Authorized Capital: \$25,500.00.
Mine Office: Beaver Mines, Alberta.
Mine Manager: A. Dancek.
Mining Surveyor: F. W. Utley.
Overman: A. Dancek.
Thickness of Seam: 6 ft. to 9 ft.
Thickness of Cover: 130 ft.
Inclination of Seam: 30 degrees.
Form of Opening: Drift.
Location of Mines: L.S. 10, Sec. 3, Twp. 6, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: M.S. 213.
C.P.R. and Truck Mine.
Registered Trade Name: Beaver Mine Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

Coleman Collieries Limited—Mine No. 204

Authorized Capital: \$1,210,000.00.
Name of President: John Gordon.
Name of Directors: John Gordon, C. E. Tait, E. Richardson, F. J. Harquail, H. Wilton-Clark.
Name of Secretary: R. Upton.
Name of Treasurer: E. Richardson.
Mine Office: Coleman, Alberta.
General Manager: H. Wilton-Clark.
Mine Manager: W. Goodwin.
Mine Surveyor: A. E. Graham.
Overmen: E. Allen and W. P. Lonsbury.
Firebosses: W. Anderson, R. Campbell, A. Galbraith, M. Kubica, R. Morris, J. Ondrik, A. Panek, R. Parry, H. Urwin, L. Vasek.
Thickness of Seam: 1 ft. to $4\frac{1}{2}$ ft.
Thickness of Cover: 0 ft. to 2300 ft.
Inclination of Seam: 30 degrees Average.
Form of Opening: Slope and Strip Mine.
Size of Slope: 12 ft. x 8 ft. Depth of Slope 2600 ft.
Location of Mine: S.W. $\frac{1}{4}$ L.S. 2, of Sec. 17, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.L.S. 449.
C.P.R. and Truck Mine.
Registered Trade Name: McGillivray Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

West Canadian Collieries Limited
Mine No. 396

Authorized Capital: \$2,900,000.00.
Name of President: E. H. Bernard.
Name of Directors: Messrs. J. A. Brusset, P. Cavois, De Gaspe Beaubien, A. J. J. Wattinne, J. Terray, F. A. J. Blon-

del, C. A. Dunning, F. Faure, Houze de L'Aulnoit.

Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London E. C. 2, England.

Mine Office: Blairmore, Alberta.

General Manager: W. Bird.

Mine Manager: T. Morgan.

Mine Surveyor: D. Pozzi.

Overmen: M. Hamilton, Asst. L. Hucik.

R. Tonge, I. Ealker, D. McLafferty, A.

Tiberg, G. Gibson.

Firebosses: J. Diedzick, J. McIssac, J.

Zemick, R. Blake.

Thickness of Seam: 5 ft. to 16 ft.

Thickness of Cover: 0 ft. to 1000 ft.

Inclination of Seam: 40 degrees.

Form of Opening: Drift and Strip Mine.

Location of Mine: L.S. 10 of Sec. 2, Twp.

8, Rge. 4, W. 5th Mer.

Coal Mining Lease Number: C.L.S. 125.

C.P.R. and Truck Mine.

Registered Trade Name: Greenhill Coal.

Character of Coal: Bituminous.

Date of Opening: 1913.

West Canadian Collieries Limited Mine No. 1584

Authorized Capital: \$2,900,000.00.

Name of President: E. H. Bernard.

Name of Directors: J. A. Brusset, P.

Cavrois, De Gaspe Beaubien, F. A. J.

Blondel, C. A. Dunning, F. Faure, H.

de L'Aulnoit, A. J. J. Wattinne, J.

Terray.

Name of Secretary: G. H. Labyt.

Head Office: 833 Salisbury House, London

Wall, London E.C. 2, England.

Mine Office: Blairmore, Alberta.

General Manager: W. Bird.

Mine Manager: M. Ashacker.

Mine Surveyor: R. Glover.

Overman: R. Blake.

Firebosses: H. McLafferty, C. McDonald,

K. McDonald, C. Dambois.

Thickness of Seam: 8 ft. to 16 ft.

Thickness of Cover: 100 ft. to 800 ft.

Inclination of Seam: 14 to 70 degrees.

Form of Opening: Drift.

Location of Mine: L.S. 15 of Sec. 31,

Twp. 6, Rge. 3, W. 5th Mer.

Coal Mining Lease Numbers: M.S. 94 and

174.

C.P.R. and Truck Mine.

Registered Trade Name: Adanac Coal.

Character of Coal: Bituminous.

Date of Opening: 1942.

Coleman Collieries Limited—Mine No. 1695

Authorized Capital: \$1,210,000.00.

Name of President: John Gordon.

Name of Directors: John Gordon, C. E.

Tait, E. Richardson, F. J. Harquail, H.

Wilton-Clark.

Name of Secretary: R. Upton.

Name of Treasurer: E. Richardson.

Mine Office: Coleman, Alberta.

General Manager: H. Wilton-Clark.

Mine Manager: A. Halldorson.

Mine Surveyor: A. E. Graham.

Foremen: J. Shearer, R. Bohle, S. Paull.

Thickness of Seam: 10 ft. to 200 ft.

Thickness of Cover: 0 ft. to 100 ft.

Inclination of Seam: Varied 0 to 90

degrees.

Form of Opening: Strip Mine.

Location of Mine: Sec. 12, Twp. 7,

Rge. 6, W. 5th Mer.

Coal Mining Lease Number: 5710.

C.P.R. Mine.

Registered Trade Name: Tent Mountain

Coal.

Character of Coal: Bituminous.

Date of Opening: 1949.

Dawn Coal Mining Co.—Mine No. 1731

Authorized Capital: \$10,000.00.

Mine Office: Pincher Creek, Alberta.

Mine Manager: J. Mikilik.

Mine Surveyor: F. Utley.

Overman: J. Mikilik.

Thickness of Seam: 7 ft.

Thickness of Cover: 100 ft.

Inclination of Seam: 30 degrees.

Form of Opening: Drift.

Location of Mine: S.E. $\frac{1}{4}$ of Sec. 9, Twp.

6, Rge. 2, W. 5th Mer.

Coal Mining Lease Number: C.L.S. 385.

Truck Mine.

Registered Trade Name: Dawn Coal.

Character of Coal: Bituminous.

Date of Opening: 1953.

DRUMHELLER AREA

Midland Coal Mining Company Limited Mine No. 367

Authorized Capital: \$56,500.00.

Name of President: Mrs. S. L. McMullen.

Name of Directors: Mrs. S. L. McMullen,

S. G. McMullen, W. R. Sandercock.

Name of Secretary: S. G. McMullen.

Mine Office: Midlandvale, Alberta.

General Manager: S. G. McMullen.

Mine Manager: Thomas Campbell.

Mine Surveyor: A. Hamilton.

Overman: A. Burrell.

Firebosses: S. Appleby, M. Bobrosky, J.

Ewing, E. Harris, W. Halowatiuk, H.

Hulbert, W. May, W. Price, W. Rob-

erts, A. Shields, J. J. Whitehead.

Thickness of Seam: $5\frac{1}{2}$ ft. to $6\frac{1}{2}$ ft.

Thickness of Cover: 550 ft. to 600 ft.

Inclination of Seam: Horizontal.

Form of Opening: Shaft. Size of Shaft:

9 ft. x 19 ft. Depth of Shaft: 138 ft.

Location of Mine: L.S. 14, Sec. 9, Twp.

29, Rge. 20, W. 4th Mer.

Coal Mining Lease Numbers: 5068 and

S.L. 550.

C.N.R., C.P.R. and Truck Mine.

Registered Trade Name: Midland and

Mercury Coals.

Character of Coal: Sub-bituminous.

Date of Opening: 1912.

Red Deer Valley Coal Co. Ltd. Mine No. 402

Authorized Capital: \$347,100.00.

Name of President: U. S. Ansley.

Name of Directors: Wm. S. Howland, Mrs.

Mary A. Howland, Louise M. Howland,

Mr. Ward H. Patterson, Mr. U. S.

Ansley.

Name of Secretary: Ward H. Patterson,

Q.C.

Head Office: Drumheller, Alberta.

Mine Office: Nacmine, Alberta.

General Manager: U. S. Ansley.

Mine Manager: John Robertson.

Mine Surveyor: John Robertson.

Overmen: C. Currie and W. Jones.

Firebosses: E. Hlasney, L. T. Hopper, R.

Keith, J. P. McIntyre, G. Cumberland,

C. Levesque, M. Tanner, D. Ewing, P.

Goods, G. Anderson, H. Roberts, C.

Kralik, J. Gallagher, W. Walker, W.

Allen.

Thickness of Seam: 5 ft. to 6 ft.

Thickness of Cover: 190 ft. to 550 ft.

Inclination of Seam: Horizontal.

Form of Opening: Slope. Size of Slope: 11

ft. x 7 ft. Depth of Slope: 650 ft. at 17

degrees.

Location of Mine: L.S. 9 of Sec. 7, Twp.

29, Rge. 20, W. 4th Mer.

Coal Mining Lease Number: 5556.

C.N.R., C.P.R. and Truck Mine.

Registered Trade Name: Glocoal.

Character of Coal: Sub-bituminous.

Date of Opening: 1913.

Century Coals Limited—Mine No. 422

Name of President: L. Patrick.

Head Office: Calgary, Alberta.

Mine Office: Drumheller, Alberta.

Agent: A. C. Hnatyshyn.

Mine Manager: Allen Hamilton.

Mine Surveyor: Allen Hamilton.

Overman: D. Mayoh.
 Firebosses: W. Morse, R. Halbert, W. Kennedy, W. Ewing, A. Courterelle, A. Thomson, W. Taylor, G. Biro.
 Thickness of Seam: 4 ft. 9 in.
 Thickness of Cover: 660 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 12 ft. x 20 ft. Depth of Shaft: 166 ft.
 Location of Mine: L.S. 5, Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: 5572.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Commander Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1914.

Star Coal Mines Limited—Mine No. 436

Authorized Capital: \$25,000.00.
 Name of President: J. R. Brodie.
 Name of Directors: F. H. Nord, J. M. Brodie, L. C. Moffat.
 Name of Secretary-Treasurer: Ken John.
 Mine Office: Aerial, Alberta.
 Superintendent: R. Richards.
 Mine Manager: J. T. Burton.
 Mine Surveyor: R. Richards.
 Overman: H. Looten.
 Firebosses: E. Womersley, E. M. Davies, J. Vredik, J. Zambor Sr., P. Ludwig, W. Strecker.
 Thickness of Seam: 6½ ft.
 Thickness of Cover: 500 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: S.E. ¼, L.S. 7 of Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Numbers: 5104, 5105.
 C.N.R. and C.P.R.
 Registered Trade Name: Star Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1914.

Brilliant Coal Company—Mine No. 1258

Authorized Capital: \$300,000.00.
 Name of President: J. A. Sandino.
 Mine Office: Drumheller, Alberta.
 General Manager: R. Dunn.
 Mine Surveyor: L. C. Stevens.
 Firebosses: A. Clozza, F. Elkes, A. Armstrong.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 400 ft. to 450 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft and Slope.
 Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 120 ft. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 450 ft.
 Location of Mine: L.S. 15, Sec. 10, Twp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Numbers: 5045, 5282, S.L. 511.
 Truck Mine.
 Registered Trade Name: Brilliant Coal Company.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1927.

Saskatchewan Federated Co-ops Limited Mine No. 1421

Authorized Capital: \$10,000.00.
 Name of President: G. Urwin.
 Name of Directors: F. S. Coffey, G. P. Baker, O. A. Herde, W. E. Mills, C. R. Smith, W. A. Johnson, H. C. Watson, H. L. Lawrence, I. L. Lloyd, L. J. Bright, J. B. Bryson, G. Urwin.
 Name of Secretary: H. L. Fowler.
 Name of Treasurer: D. E. Stewart.
 Head Office: Saskatoon.
 Mine Office: Drumheller, Box 200.
 Mine Manager: I. N. Potter.
 Mine Surveyor: I. N. Potter.
 Overman: J. Farmer.
 Firebosses: J. Taylor, W. Barclay, R. Keough, J. Chuippl, J. Jungen, E. Farmer.
 Thickness of Seam: 60 inches.
 Thickness of Cover: 88 ft. to 550 ft.

Inclination of Seam: Horizontal.
 Form of Opening: Shaft and Slope. Size of Shaft: 9 ft x 15 ft. Depth of Shaft: 88 ft. Size of Slope: 7 ft. x 11 ft. Depth of Slope: 340 ft.
 Location of Mine: L.S. 13, Sec. 11, Twp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: 5603.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Hy-Grade Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1933.

Century Coals Limited (Atlas Mine) Mine No. 1484

Name of President: Lorraine Patrick.
 Head Office: 2410 Fourth Street S.W., Calgary, Alberta.
 Mine Office: East Coulee, Alberta.
 Mine Manager: Hugh Crawford.
 Mine Surveyor: A. C. Hnatyshyn.
 Overmen: Stanley Mather, Howell Evans.
 Firebosses: P. Premoroko, B. Waggoner, John Young, J. Ondrus, W. Herman, W. Koehler, V. Lagunoff, S. Olesky, E. Karashowsky, J. Biro, R. Gurtler, P. Timm, W. Mather, R. Powell.
 Thickness of Seam: 4 ft. to 5 ft.
 Thickness of Cover: 400 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift. Drift Level. Size of Drift: 6 ft. x 14 ft.
 Location of Mine: L.S. 13, Sec. 21, Twp. 27, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 534A, 601.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: New Wildfire Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1935.

Murray Collieries Limited—Mine No. 1491

Authorized Capital: \$100,000.00.
 Name of Directors: H. K. Reed, D. C. McVeigh.
 Mine Office: East Coulee, Alberta.
 General Managers: H. K. Reed, D. C. McVeigh.
 Mine Manager: Angelo Blasetti.
 Mine Surveyor: L. C. Stevens.
 Overman: Wm. L. Shepard.
 Firebosses: J. McKenzie, M. Ramsay, J. Kushnir, A. Sladek, F. Zaputit, F. Kane, R. Steven, M. Honeyman, W. Young.
 Thickness of Seam: 5½ ft.
 Thickness of Cover: 400 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 1 of Sec. 29, Twp. 27, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 539.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: New Murray Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1936.

Aetna Coals Ltd.—Mine No. 1511

Authorized Capital: \$50,000.00.
 Name of President: J. J. O'Dwyer.
 Name of Secretary-Treasurer: M. A. O'Dwyer.
 Head Office: Drumheller, Alberta.
 Mine Office: Cambria, Alberta.
 General Manager: M. A. O'Dwyer.
 Mining Surveyor: A. Hamilton.
 Thickness of Seam: 7 ft.
 Thickness of Cover: 400 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope and Strip Mine.
 Size of Slope: 14 ft. x 7 ft. Depth of Slope: 100 ft.
 Location of Mine: L.S. 1 of Sec. 22, Twp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 6108.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Aetna Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1937.

Wayne Coal Limited—Mine No. 1570

Authorized Capital: \$10,000.00.
 Name of President: J. J. O'Dwyer.
 Name of Treasurer: M. A. O'Dwyer.
 Mine Office: Wayne, Alberta.
 General Manager: J. J. O'Dwyer.
 Mine Manager: J. Blair.
 Mine Surveyor: A. Hamilton.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 360 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 12 ft. x 6 ft. Depth of Slope: 335 ft.
 Location of Mine: N.E. $\frac{1}{4}$, L.S. 8, Sec. 7, Twp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: Freehold.
 C.N.R., C.P.R., and Truck Mine.
 Registered Trade Name: Sovereign Coal.
 Date of Opening: 1940.

**Amalgamated Coals Limited
Mine No. 1573**

Authorized Capital: \$100,000.00.
 Name of President: H. R. Narraway.
 Name of Directors: H. R. Narraway, S. G. McMullen, A. Edmond, D. W. Clarke, E. A. Lovett.
 Name of Secretary-Treasurer: A. Edmond.
 Head Office: 1503-15th Avenue West, Calgary, Alberta.
 Mine Office, East Coulee, Alberta.
 Mine Manager: S. Douglas.
 Mine Surveyor: T. Smith.
 Overman: J. Harries, W. Menzies.
 Firebosses: G. Unsworth, I. Folden, J. Barrie, R. Cowan, M. Vanderkinder, F. Ellison, J. Boyce.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 400 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 1, Sec. 20, Twp. 27, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 587.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Western Monarch Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1940.

H. S. Chambers—Mine No. 1599

Mine Office: Delia, Alberta.
 Mine Manager: H. S. Chambers.
 Mine Surveyor: A. G. Macaulay.
 Overman: H. S. Chambers.
 Thickness of Seam: 3 ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 9 of Sec. 22, Twp. 28, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5458.
 Truck Mine.
 Registered Trade Name: Burn-Brite Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1943.

J. Wakaruk—Mine No. 1655

Authorized Capital: \$12,000.00.
 Name of President: J. Wakaruk.
 Name of Directors: Frank Zayac, W. Walker.
 Name of Treasurer: G. Wakaruk.
 Mine Office: Drumheller, Alberta.
 Mine Surveyor: A. G. Macaulay.
 Overman: George Wakaruk.
 Fireboss: J. Wakaruk.
 Thickness of Seam: 4 $\frac{1}{2}$ ft.
 Thickness of Cover: 200 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 65 ft.
 Location of Mine: W. & E. $\frac{1}{2}$ of L.S. 9 and 10, Sec. 22, Twp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Numbers: 5593 and 6022.
 Truck Mine.
 Registered Trade Name: Cozy Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1947.

**Mark Sands & Partners
Mine No. 1666**

Name of President: Mark Sands.
 Mine Office: Rosedale, Alberta.
 Mine Manager: R. Nelson.
 Mine Surveyor: A. Hamilton.
 Overman: Rowland Nelson.
 Thickness of Seam: 2 ft. 10 inches.
 Thickness of Cover: 12 ft. to 20 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16 of Sec. 16, Twp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 754.
 C.N.R. and Truck Mine.
 Registered Trade Name: Subway Coal Co.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1947.

Victor Leonhardt—Mine No. 1668

Authorized Capital: \$10,000.00.
 Name of Secretary-Treasurer: V. Leonhardt.
 Mine Office: Drumheller.
 Mine Manager: V. Leonhardt.
 Mine Surveyor: Allan Hamilton.
 Thickness of Seam: 2 ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 3 and 6; Sec. 17, Twp. 29, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 5897.
 Truck Mine.
 Registered Trade Name: Lion Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1948.

**Joy Coal Mining Company Limited
Mine No. 1669**

Authorized Capital: \$14,738.43.
 Name of Partners: John Kudhnir, Adolf Skinberg, Warren Young, Sr.
 Name of Secretary-Treasurer: Harold Brooks.
 Head Office: Cambria, Alberta.
 Mine Office: Rosedale, Alberta.
 General Manager: Adolf Skinberg.
 Mine Manager: A. Hooyberg.
 Mine Surveyor: Allan Hamilton.
 Thickness of Seam: 3 $\frac{1}{2}$ ft.
 Thickness of Cover: 300 ft. to 400 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 11, 12, 13, 14 of Sec. 18, Twp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 668.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Joy and Sunshine Coals.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1948.

Joe Ostrowski—Mine No. 1725

Authorized Capital: \$1,000.00.
 Head Office: East Coulee, Alberta.
 Mine Office: Willow Creek, Alberta.
 Mine Manager: Joe Ostrowski.
 Mine Surveyor: Allan Hamilton.
 Overman: J. Ostrowski.
 Thickness of Seam: 5 $\frac{1}{2}$ ft.
 Thickness of Cover: 150 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N. $\frac{1}{2}$ of L.S. 2 and 7, Sec. 23, Twp. 28, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5967.
 Truck Mine.
 Registered Trade Name: Leader Coal Co.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1952.

Premier Coal Co.—Mine No. 1726

Name of Partners: G. W. Briggs, Thomas Harrison.
 Head Office: Box 377, Drumheller, Alberta.
 Mine Office: Drumheller, Alberta.
 Mine Manager: Geo. W. Briggs.

Mine Surveyor: A. Hamilton.
 Overman: G. Briggs.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 18 ft. to 20 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16 of Sec. 3, Twp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: 6051.
 C.N.R. and Truck Mine.
 Registered Trade Name: Premier Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1952.

EDMONTON AREA

Sundance Mines Limited—Mine No. 129

Authorized Capital: \$20,000.00.
 Name of President: P. H. Cote.
 Name of Director: P. H. Cote, Dr. L. P. Mousseau.
 Name of Secretary: P. E. Poirier.
 Head Office: 526 Tegler Building, Edmonton, Alberta.
 Mine Office: Cardiff, Alberta.
 General Manager: P. H. Cote.
 Mine Manager: George Vranas.
 Mine Surveyor: L. C. Stevens.
 Overman: G. Vranas.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 35 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 3 and 6 of Sec. 24, Twp. 55, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: 5669.
 C.N.R., C.P.R., N.A.R. and Truck Mine.
 Registered Trade Name: Suncole.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1907.

Edmonton Collieries Limited Mine No. 1266

Authorized Capital: \$20,000.00.
 Name of President: W. Gordon McKay.
 Name of Directors: W. Gordon McKay, H. W. Layton, C. C. Down.
 Name of Secretary-Treasurer: Harold W. Layton.
 Head Office: 11234 - 76 Ave., Edmonton, Alberta.
 Mine Office: Namao, Alberta.
 General Manager: W. Gordon McKay.
 Mine Manager: A. Crawford.
 Mine Surveyor: L. C. Stevens.
 Overman: A. Johnstone.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 375 ft.
 Location of Mine: L.S. 14, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 596.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Black Gem Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1927.

Samis Collieries Ltd.—Mine No. 1316

Head Office: 903 Wallace Building, Edmonton, Alberta.
 Mine Office: Namao, Alberta.
 General Manager: K. E. Samis.
 Mine Manager: A. B. Lister.
 Mine Surveyor: L. C. Stevens.
 Overman: A. B. Lister.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 75 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 150 ft.
 Location of Mine: S.W. $\frac{1}{4}$ of L.S. 5 of Sec. 36, Twp. 54, Rge. 25, W. 4th Meridian.
 Coal Mining Lease Numbers: 6018, 5539.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Samis Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1929.

Riverdale Coals Limited—Mine No. 1463

Authorized Capital: \$20,000.00.
 Name of President: C. K. Brzuskiwicz.
 Name of Directors: S. Brzuskiwicz, M. Chura, C. K. Brzuskiwicz, J. Mazolewski.
 Name of Secretary-Treasurer: J. Mazolewski.
 Head Office: 10451 - 77 St., Edmonton, Alberta.
 Mine Office: Namao, Alberta.
 General Manager: C. K. Brzuskiwicz.
 Mine Manager: J. Smillie.
 Mine Surveyor: D. Jones.
 Overman: J. Smillie.
 Fireboss: S. Brzuskiwicz.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 95 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift. Size of Shaft: 6 ft. x 5 ft. Depth of Shaft: 100 ft.
 Location of Mine: S.W. $\frac{1}{4}$ of Sec. 8, Twp. 55, Rge. 24, W. 4th Mer.
 Coal Mining Lease Number: Freehold.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Riverdale Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1934.

Egg Lake Coal Co. Ltd.—Mine No. 1582

Name of President: G. Y. Gouin.
 Name of Secretary-Treasurer: E. Beke.
 Mine Office: Morinville, Alberta.
 Mine Manager: G. Y. Gouin.
 Mine Surveyor: David Jones.
 Overman: Frank Fellows.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 20 ft. to 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N.E. $\frac{1}{4}$ of Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
 Coal Mining Lease Number: 5600.
 C.N.R., C.P.R. and Truck Mine.
 Registered Trade Name: Egg Lake Coal Co. Ltd.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1939.

J. B. Starky Co. Ltd.—Mine No. 1626

Authorized Capital: \$290,000.00.
 Name of President: J. B. Starky.
 Name of Directors: J. B. Starky, E. A. Mills.
 Name of Secretary-Treasurer: E. A. Mills.
 Head Office: 10631 - 92 St., Edmonton, Alberta.
 Mine Office: R.R. 2, St. Albert, Alberta.
 General Manager: J. B. Starky.
 Mine Manager: W. T. Worthington, Sr.
 Mine Surveyor: W. T. Worthington, Jr.
 Overman: W. T. Worthington, Jr.
 Firebosses: H. Wales, J. McMillan, E. Fawcett.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 75 ft. to 85 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope and Shaft (2).
 Size of Shaft: 10 ft. x 12 ft., 7 ft. x 11 ft. Depth of Shaft: 75 ft. and 75 ft. Size of Slope: 6 ft. x 9 ft. Depth of Slope: 210 ft.
 Location of Mine: S.W. $\frac{1}{4}$ of L.S. 4, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
 Coal Mining Lease Numbers: 5537, C.P.R. 610.
 C.N.R., N.A.R., C.P.R. and Truck Mine.
 Registered Trade Name: Star-Key Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1945.

O. F. MacLachlan—Mine No. 1632

Head Office: 12707 - 118 Ave., Edmonton, Alberta.
 Mine Office: Ardrossan, Alberta.
 Mine Manager: Mel Olson.
 Mine Surveyor: L. C. Stevens.
 Foreman: Mel Olson.

Thickness of Seam: 8 ft.
 Thickness of Cover: 30 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N.W. $\frac{1}{4}$ of L.S. 8 and
 9 of Sec. 2, Twp. 53, Rge. 21, W. 4th
 Mer.

Coal Mining Lease Number: 5542.
 Truck Mine.
 Registered Trade Name: Beaver Hills Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1945.

Morinville Collieries Ltd.—Mine No. 1635

Authorized Capital: \$40,000.00.
 Name of President: J. Camarta.
 Name of Directors: J. Camarta, J. McDonald, J. Shafers.
 Name of Secretary: J. McDonald.
 Name of Treasurer: J. Shafers.
 Mine Office: Morinville, Alberta.
 Mine Manager: J. Camarta.
 Thickness of Seam: 7 ft.
 Thickness of Cover: 60 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 7 ft. x 8 ft. Depth of Slope: 179 ft.
 Location of Mine: L.S. 1 of Sec. 32, Twp.
 55, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: 5565.
 C.N.R., C.P.R. and Truck.
 Registered Trade Name: Spitfire Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1945.

A. H. Horkulak—Mine No. 1641

Mine Office: Box 4092, South Edmonton,
 Alberta.
 Mine Manager: A. Horkulak.
 Mine Surveyor: L. C. Stevens.
 Overman: A. Horkulak.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 100 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 7 ft. x 7 ft. Depth of Slope: 90 ft.
 Location of Mine: E. $\frac{1}{2}$ of L.S. 9 and
 S. $\frac{1}{2}$ of L.S. 16, Sec. 26, Twp. 51,
 Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: 5520.
 Truck Mine.
 Registered Trade Name: Rabbit Hill Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1946.

J. G. Mucha—Mine No. 1684

Authorized Capital: \$15,000.00.
 Mine Office: Box 4044, South Edmonton,
 Alberta.
 General Manager: J. G. Mucha.
 Mine Surveyor: L. C. Stevens.
 Overman: J. G. Mucha.
 Thickness of Seam: 2 ft.
 Thickness of Cover: 20 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 10 and 11, Sec. 25,
 Twp. 51, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 623.
 Truck Mine.
 Registered Trade Name: Bright Service
 Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1948.

Adelard Houle—Mine No. 1696

Mine Office: Morinville, Alberta.
 Mine Manager: Adelard Houle.
 Mine Surveyor: L. C. Stevens.
 Overman: Adelard Houle.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 18 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 1, 2, 7, 8 of Sec.
 36, Twp. 56, Rge. 26, W. 4th Mer.

Coal Mining Lease Number: 5707.
 Truck Mine.
 Registered Trade Name: Mearn's Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1949.

Banner Coals Limited—Mine No. 1724

Name of President: J. B. Starky.
 Name of Secretary-Treasurer: E. A. Mills.
 Head Office: 10631 - 92 St., Edmonton,
 Alberta.
 Mine Office: Cardiff, Alberta.
 General Manager: W. T. Worthington, Sr.
 Mine Surveyor: W. T. Worthington, Jr.
 Overman: H. Coljee.
 Fireboss: Elmer Fewcett.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 20 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 2 of Sec. 24, and
 L.S. 15, Sec. 13, Twp. 55, Rge. 25, W.
 4th Mer.
 Coal Mining Lease Numbers: 6030, C.P.R.
 740.
 C.N.R., C.P.R., N.A.R. and Truck Mine.
 Registered Trade Name: New Penn Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1951.

Red Hot Coal Limited—Mine No. 1727

Authorized Capital: \$23,000.00.
 Name of President: W. Fridel.
 Name of Directors: J. Fridel.
 Name of Secretary-Treasurer: J. Lang.
 Head Office: 10659 - 93 St., Edmonton,
 Alberta.
 General Manager: W. Fridel.
 Mine Manager: A. Park.
 Mine Surveyor: L. C. Stevens.
 Overman: A. Park.
 Fireboss: F. Ewing.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 165 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6 ft. x 6 ft. Depth of Slope: 270 ft.
 Location of Mine: S.W. $\frac{1}{4}$ of Sec. 13,
 Twp. 52, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 742.
 C.P.R. and Truck Mine.
 Registered Trade Name: Red Hot Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1952.

GLEICHEN AREA

Blackfoot Indians—Mine No. 72a

Mine Office: Gleichen, Alberta.
 Superintendent: W. P. B. Pugh.
 Mine Manager: T. Marshall.
 Mine Surveyor: W. E. G. Hall.
 Thickness of Seam: $5\frac{1}{2}$ ft.
 Thickness of Cover: 150 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: Sec. 12, Twp. 21, Rge.
 21, W. 4th Mer.
 Truck Mine.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1902.

C. H. Fleischer & R. H. Buzzard Mine No. 1431

Mine Office: Box 34, Rosebud, Alberta.
 Mine Manager: R. H. Buzzard.
 Mine Surveyor: David Jones.
 Overman: C. E. Smith.
 Fireboss: C. E. Smith.
 Thickness of Seam: 3 ft.
 Thickness of Cover: 20 ft. to 80 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 7 ft. x 5 ft. Depth of Slope: 30 ft.
 Location of Mine: L.S. 3 and 6, Sec. 29,
 Twp. 26, Rge. 21, W. 4th Mer.

Coal Mining Lease Number: C.P.R. 704.
Truck Mine.
Registered Trade Name: Consumer's Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

William McMillan—Mine No. 1521

Mine Office: Box 44, Rosebud, Alberta.
Mine Manager: Alex McMillan.
Mine Surveyor: David Jones.
Overman: John Hamilton.
Thickness of Seam: $3\frac{1}{2}$ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 140 ft.
Location of Mine: L.S. 14 and 15, Sec. 20, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 664.
Truck Mine.
Registered Trade Name: Supreme of the Valley Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

HALCOURT AREA

Baldwin Collieries Ltd.—Mine No. 651

Name of President: F. Gibney.
Head Office: Grande Prairie, Alberta.
Mine Office: Grande Prairie, Alberta.
Mine Surveyor: L. C. Stevens.
Overman: F. Gibney.
Thickness of Seam: 3 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: $4\frac{1}{2}$ ft. x 5 ft. Depth of Shaft: 90 ft.
Location of Mine: L.S. 15, Sec. 35, Twp. 70, Rge. 7, W. 6th Mer.
Coal Mining Lease Numbers: 2737, 6020, 5461.
Truck Mine.
Registered Trade Name: Country Coal.
Character of Coal: Bituminous.
Date of Opening: 1916.

Hillside Coal Company: Mine No. 1588

Mine Office: Halcourt, Alberta.
General Managers: L. L. Gage and Wm. Ray.
Thickness of Seam: 28 in.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 14, Sec. 24, Twp. 70, Rge. 11, W. 6th Mer.
Coal Mining Lease Number: 6130.
Truck Mine.
Registered Trade Name: Hillside Coal.
Character of Coal: Bituminous.
Date of Opening: 1942.

Michael Romanuk—Mine No. 1704

Mine Office: Beaverlodge, Alberta.
General Manager: M. Romanuk.
Mine Manager: M. Romanuk.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 2 ft.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. $\frac{1}{2}$ L.S. 3, Sec. 21, Twp. 70, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5831.
Truck Mine.
Registered Trade Name: Burn E.Z. Coal.
Character of Coal: Bituminous.
Date of Opening: 1949.

LETHBRIDGE AREA

J. A. S. Wukusich—Mine No. 738

Head Office: 1406 - 3rd Avenue South, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. A. S. Wukusich.
Mine Surveyor: J. F. Hamilton.

Overman: J. A. S. Wukusich.
Thickness of Seam: 2 ft.
Thickness of Cover: 20 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Air Shaft. Size of Shaft: 4 ft. x 4 ft. Depth of Shaft: 35 ft. Size of Slope: 4 ft. x 6 ft. Depth of Slope: 25 ft.
Location of Mine: L.S. 2 and 7, Sec. 11, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5522.
Truck Mine.
Registered Trade Name: Santa-Maria Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

**George Rollingson & Son.
Mine No. 889**

Mine Office: Box 432, Lethbridge, Alberta.
Mine Manager: George Rollingson.
Mine Surveyor: J. F. Hamilton.
Thickness of Seam: 2 ft.
Thickness of Cover: 10 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: E. and W. $\frac{1}{2}$ L.S. 15, Sec. 2, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5768.
Registered Trade Name: Whoopup Coal.
Character of Coal: Bituminous.
Date of Opening: 1921.

Steve's Mine—Mine No. 1086

Mine Office: Lethbridge, Alberta.
Mine Manager: Steve Kocsis.
Mine Surveyor: J. F. Hamilton.
Overman: Steve Kocsis.
Thickness of Seam: 3 ft.
Thickness of Cover: 12 ft. to 155 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 4 ft. x 6 ft. Depth of Shaft: 18 ft.
Location of Mine: L.S. 8 and 9, Sec. 7, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 6112.
Truck Mine.
Registered Trade Name: Steve's Mine Coal.
Character of Coal: Bituminous.
Date of Opening: 1923.

**Lethbridge Collieries Limited
Mine No. 1263**

Authorized Capital: \$1,400,000.00.
Name of President: Leslie Munroe.
Name of Directors: L. Munroe, E. A. Lovett, G. R. Whitmore, A. R. Dingman, C. R. Tanner.
Name of Secretary: C. T. Webb.
Name of Treasurer: E. R. Johnson.
Registered Office: 137 - 9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
General Manager: J. M. Davidson.
Mine Manager: John Brady.
Mine Surveyor: R. D. Livingstone.
Overman: D. Crabb.
Firebosses: Messrs. Yorko, Birse, Macauley, Jensen, Strickland, Olah, Kovacs, Ruabon, Luala.
Thickness of Seam: 5 ft.
Thickness of Cover: 263 ft.
Inclination of Seam: Dip 2 degrees N., 56 degrees W.
Form of Opening: Shaft. Size of Shafts: 9 ft. x 9 ft., 9 ft. x 24 ft. Depth of Shafts: 263 ft.
Location of Mine: L.S. 11, Sec. 30, Twp. 10, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: MS 983.
C.P.R. Mine.
Registered Trade Name: Cadillac Coal.
Character of Coal: Bituminous.
Date of Opening: 1927.

**Lethbridge Collieries Limited
Mine No. 1464**

Authorized Capital: \$1,400,000.00.
Name of President: Leslie Munroe.
Name of Directors: L. Munroe, E. A.

Lovett, G. R. Whitmore, A. R. Dingman, C. R. Tanner.
 Name of Secretary: C. T. Webb.
 Name of Treasurer: E. R. Johnson.
 Registered Office: 137 - 9th Avenue East, Calgary, Alberta.
 Mine Office: Lethbridge, Alberta.
 General Manager: J. M. Davidson.
 Mine Manager: A. G. Donaldson.
 Mine Surveyor: R. D. Livingstone.
 Overman: H. Tyrer.
 Firebosses: Messrs. Stewart, Brugos, Coutts, Dobson, Kosmanluk, Peta, Bridoll, Wrostok, Chemmotti, Ridgeway.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 400 ft.
 Form of Opening: Shaft. Size of Shaft: 9 ft. x 18 ft., 11 ft. x 19 ft. Depth of Shaft: 359 ft.
 Inclination of Seam: 1 ft. to 75 ft. N., 8 degrees W.
 Location of Mine: L.S. 3, Sec. 2, Twp. 9, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 524.
 C.P.R. Mine.
 Registered Trade Name: Galt Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1934.

J. J. Hamilton Coal Company
 Mine No. 1581

Head Office: 413 - 8th Street South, Lethbridge, Alberta.
 Mine Office: Lethbridge, Alberta.
 Mine Manager: J. J. Hamilton.
 Mine Surveyor: J. F. Hamilton.
 Overman: E. Tyrer.
 Firebosses: S. Lesson, A. Koshman.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 235 ft. to 475 ft.
 Inclination of Seam: 2 degrees N.W.
 Form of Opening: Shaft. Size of Shaft: 9 ft. x 8 ft. Depth of Shaft: 235 ft.
 Location of Mine: L.S. 5, 6, 10, 11, 12 and 15 of Sec. 24, Twp. 9, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5370.
 Truck and C.P.R. Mine.
 Registered Trade Name: Federal Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1941.

L. C. McClain—Mine No. 1685

Mine Office: Magrath, Alberta.
 Mine Manager: T. Minor.
 Mine Surveyor: J. F. Hamilton.
 Foreman: T. Minor.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 15 ft. to 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: S.W. $\frac{1}{4}$ L.S. 1 and 2, Sec. 18, Twp. 7, Rge. 21, W. 4th Mer.
 Coal Mining Lease Number: Indian Reserve.
 Truck Mine.
 Registered Trade Name: M & M Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1948.

MOUNTAIN PARK AREA

Luscar Coals Limited—Mine No. 905

Authorized Capital: \$650,000.00.
 Name of President: A. M. Mitchell.
 Name of Directors: R. M. Jenkinson, W. O. Parlee, Q.C.
 Name of Secretary-Treasurer: P. J. Cullimore.
 Head Office: 140 Tegler Building, Edmonton, Alberta.
 Mine Office: Luscar, Alberta.
 General Manager: D. B. Young.
 Mine Manager: D. C. Hamilton.
 Mine Surveyor: D. C. Hamilton.
 Foreman: D. Stocks.
 Thickness of Seam: 45 ft.

Thickness of Cover: 50 ft. to 150 ft.
 Inclination of Seam: 35 degrees.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 7, Sec. 23, Twp. 47, Rge. 24, W. 5th Mer.
 Coal Mining Lease Numbers: 5411, 5213.
 C.N.R. Mine.
 Registered Trade Name: Luscar Coal & Luscar Briquettes.
 Character of Coal: Bituminous.
 Date of Opening: 1921.

NORDEGG AREA

Brazeau Collieries Limited
 Mine No. 256

Authorized Capital: \$4,000,000.00.
 Name of President: J. A. Boyd.
 Name of Directors: J. A. Boyd, H. S. Gausby, A. D. Sturrock, P. Lash, C. R. T. Cunningham.
 Name of Secretary-Treasurer: H. S. Gausby.
 Head Office: 1720 - 25 King Street West, Toronto 1, Ontario.
 Mine Office: Nordegg, Alberta.
 General Manager: A. D. Sturrock.
 Mine Manager: Z. D'Amico.
 Mine Surveyor: A. McMullen.
 Overman: D. Duncan.
 Firebosses: J. Hall, G. Minue, R. Jahelka, S. Barton, G. China.
 Thickness of Seams: No. 2 Seam: 6 ft. No. 3 Seam: 13 ft.
 Thickness of Covers: No. 2 Seam: 314 ft. No. 3 Seam: 293 ft.
 Inclination of Seam: 12 degrees.
 Form of Opening: Slope. Size of Slopes: No. 2 Seam: 6 ft. x 12 ft. No. 3 Seam: 13 ft. x 12 ft. Depth of Slopes: 4000 ft.
 Location of Mine: Twp. 40, Rge. 15, W. 5th Mer.
 Coal Mining Lease Numbers: 5645, 6126, 6127.
 C.N.R. Mine.
 Registered Trade Name: Brazeau Bituminous Steel Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1910.

NO AREA

Len Collins—Mine No. 1735

Mine Office: Connor Creek, Alberta.
 Mine Manager: Len Collins.
 Operator: Len Collins.
 Thickness of Seam: 3 ft. to 3½ ft.
 Thickness of Cover: 18 ft. to 20 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: E. $\frac{1}{2}$ of L.S. 9 and S. $\frac{1}{2}$ of L.S. 16 of Sec. 20, Twp. 59, Rge. 8, W. 5th Mer.
 Coal Mining Lease Number: 6129.
 Registered Trade Name: Highland Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1953.

OLDMAN AREA

Willow Valley Coal Co.—Mine No. 1733

Authorized Capital: \$3,000.00.
 Mine Office: Bellevue, Alberta.
 Mine Manager: Charlie Marasek.
 Mine Surveyor: R. Glover.
 Thickness of Seam: 4 ft. to 12 ft.
 Thickness of Cover: 0 ft. to 25 ft.
 Inclination of Seam: 25 degrees.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 2 and 15, of Sec. 9 and 16, Twp. 10, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: 6038.
 Registered Trade Name: Willow Valley Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1953.

PAKOWKI AREA**M. R. Johnson & E. Davis**
Mine No. 1318

Authorized Capital: \$4,000.00.
 Mine Office: Elkwater, Alberta.
 Mine Manager: M. R. Johnson.
 Mine Surveyor: E. Ashburner.
 Overman: M. R. Johnson.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 0 to 200 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L. S. 10, Sec. 23, Rge. 3, Twp. 8, W. 4th Mer.
 Coal Mining Lease Number: 2890.
 Truck Mine.
 Registered Trade Name: Elkwater Lake Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1929.

PEKISKO AREA**Ideal Coal Limited—Mine No. 1516**

Name of President: Frederick L. Irving.
 Name of Directors: F. L. Irving, D. F. Irving, Peter M. Ramsay.
 Name of Secretary-Treasurer: P. M. Ramsay.
 Head Office: 607 Maclean Block, Calgary, Alberta.
 Mine Office: Priddis, Alberta.
 General Manager: P. M. Ramsay.
 Mine Manager: P. M. Ramsay.
 Mine Surveyor: W. E. G. Hall.
 Overman: Thomas Coulter.
 Thickness of Seam: 3½ ft.
 Thickness of Cover: 140 ft.
 Inclination of Seam: 4 degrees.
 Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 228 ft.
 Location of Mine: L.S. 14, Sec. 4, Twp. 22, Rge. 3, W. 5th Mer.
 Coal Mining Lease Numbers: 5636, 5614.
 C.P.R. and Truck Mine.
 Registered Trade Name: Ideal Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1937.

PEMBINA AREA**Alberta Southern Coal Co. Ltd.**
Mine No. 419

Authorized Capital: \$20,000.00.
 Name of President: C. C. Cook.
 Name of Directors: Fred Mannix, C. C. Cook, S. I. Fraser, M. M. McDonald.
 Name of Secretary: Everett Costello.
 Name of Treasurer: Eric Connelly.
 Head Office: Taber, Alberta.
 Mine Office: Wabamun, Alberta.
 General Manager: James C. Cook.
 Mine Manager: John Vivyurcka.
 Mine Surveyor: P. Buesnel.
 Overman: E. A. Bryant.
 Thickness of Seam: 14 ft.
 Thickness of Cover: 46 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 15 of Sec. 9, Twp. 53, Rge. 4, W. 5th Mer.
 Coal Mining Lease Numbers: 572, 663.
 C.N.R. and Truck Mine.
 Registered Trade Name: Blue Flame Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1913.

Strawberry Creek Coal Company Limited
Mine No. 1644

Authorized Capital: \$20,000.00.
 Name of President: Leslie G. Karsay.
 Name of Directors: L. G. Karsay, Joe Balga, Elaine Liba.
 Name of Secretary-Treasurer: Elaine Liba.
 Mine Office: Warburg, Alberta.
 Mine Manager: L. G. Karsay.
 Mine Surveyor: David Jones.

Foreman: Florian Petruch.
 Thickness of Seam: 3½ ft.
 Thickness of Cover: 20 ft. to 50 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 6 and 11, Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: C.P.R. 617.
 Truck Mine.
 Registered Trade Name: Strawberry Creek Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1946.

H. Rhodes & Son—Mine No. 1657

Mine Office: Entwistle, Alberta.
 Mine Manager: H. Rhodes.
 Mine Surveyor: L. C. Stevens.
 Overman: H. Rhodes.
 Fireboss: H. Rhodes.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 100 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 9 and S. ½ L.S. 16, Sec. 10, Twp. 54, Rge. 7, W. 5th Mer.
 Coal Mining Lease Number: 5619.
 Truck Mine.
 Registered Trade Name: Onyx Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1947.

Warburg Coal Co. Ltd.—Mine No. 1670

Authorized Capital: \$20,000.00.
 Name of President: H. F. Hansen.
 Name of Secretary: K. J. Hansen.
 Mine Office: Warburg, Alberta.
 Mine Manager: H. F. Hansen.
 Mine Surveyor: David Jones.
 Overman: B. McQueaker.
 Thickness of Seam: 2½ ft. to 4 ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 1, Sec. 24, L.S. 14 of Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: C.P.R. 656.
 C.P.R. and Truck Mine.
 Registered Trade Name: Pinter Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1948.

F. Fodor & W. Fodor—Mine No. 1712

Mine Office: Warburg, Alberta.
 Mine Manager: F. Fodor.
 Mine Surveyor: D. Jones.
 Overman: F. Fodor.
 Thickness of Seam: 4½ ft.
 Thickness of Cover: 45 ft. to 50 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N.W. ¼ of L.S. 12, Sec. 20, Twp. 49, Rge. 2, W. 5th Mer.
 Coal Mining Lease Number: 5934.
 Truck Mine.
 Registered Trade Name: Fodor Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1950.

Pembina Peerless Coal—Mine No. 1739

Mine Office: Entwistle, Alberta.
 Mine Manager: C. Ostertag.
 Mine Surveyor: L. C. Stevens.
 Foreman: C. Ostertag.
 Thickness of Seam: 4½ ft.
 Thickness of Cover: 20 ft. to 40 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N.W. ¼ of Sec. 2, Twp. 54, Rge. 7, W. 5th Mer.
 Coal Mining Lease Number: Freehold.
 Truck Mine.
 Registered Trade Name: Pembina Peerless Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1954.

PINCHER AREA**Rhodes Mining Company—Mine No. 1738**

Name of President: W. B. Rhodes.
 Mine Office: Lundbreck, Alberta.
 Mine Manager: W. B. Rhodes.
 Overman: W. B. Rhodes.
 Thickness of Seam: 3 ft. to 5 ft.
 Inclination of Seam: 70 degrees.
 Location of Mine: L.S. 12 of Sec. 5, Twp. 9, Rge. 2, W. 5th Mer.
 Coal Mining Lease Number: 6148.
 Truck Mine.
 Registered Trade Name: Quick Flame Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1954.

PRAIRIE CREEK AREA**Yellowhead Coal Company
Mine No. 1714**

Mine Office: Hinton, Alberta.
 Mine Surveyor: R. A. Dunn.
 Overman: H. Urban.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 85 ft.
 Inclination of Seam: 16 degrees.
 Form of Opening: Slope. Size of Slope: 12 ft. x 6 ft. Depth of Slope: 442 ft.
 Location of Mine: S.E. $\frac{1}{4}$ of Sec. 11 and S.W. $\frac{1}{4}$ of Sec. 12, Twp. 51, Rge. 25, W. 5th Mer.
 Coal Mining Lease Number: 5924.
 C.N.R. and Truck Mine.
 Registered Trade Name: Yellow Head Hard Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1950

REDCLIFF AREA**Ajax Coal Company—Mine No. 772**

Mine Office: Medicine Hat, Alberta.
 Mine Manager & Owner: Rudolph Radke.
 Mine Surveyor: J. F. Hamilton.
 Overman: Marcello Valentine.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 200 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope: 30 degrees. Air Shaft, Size of Shaft: 6 ft. x 6 ft. Depth of Shaft: 40 ft.
 Location of Mine: L.S. 3, Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. Truck Mine.
 Registered Trade Name: Ajax Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1918.

SAUNDERS AREA**Alexo Coal Company Limited
Mine No. 852**

Authorized Capital: \$200,000.00.
 Name of President: P. F. Pullen.
 Name of Directors: Mrs. E. F. Pullen, P. F. Pullen, E. G. Pullen, C. C. Clark, P. M. Higgins.
 Name of Secretary: E. G. Pullen.
 Head Office: Oakville, Ontario.
 Mine Office: Alexo, Alberta.
 General Manager: P. F. Pullen.
 Mine Manager: R. Tennant.
 Mine Surveyor: P. F. Pullen.
 Overman: L. Gladwin.
 Firebosses: A. Pollitt, W. Prokopetz.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 560 ft.
 Inclination of Seam: 9 degrees.
 Form of Opening: Slope. Size of Slope: 6 ft. x 10 ft. Depth of Slope: 2700 ft.
 Location of Mine: N.W. $\frac{1}{4}$ of Sec. 27, Twp. 40, Rge. 13, W. 5th Mer.
 Coal Mining Lease Number: 1570.
 C.N.R. Mine.
 Registered Trade Name: Alexo and Acorn Saunders Coal.
 Character of Coal: Bituminous.
 Date of Opening: 1920.

SHERNESS AREA**Western Dominion Coal Mines Ltd.
Mine No. 443**

Authorized Capital: \$1,500,000.00.
 Name of President: John R. Brodie.
 Name of Directors: J. M. Brodie, F. H. Nord, A. D. Hawkes.
 Name of Secretary-Treasurer: K. John.
 Head Office: Taylorton, Saskatchewan.
 Mine Office: Sheerness, Alberta.
 Mine Manager: R. L. Wood.
 Mine Surveyor: D. Jones.
 Overman: C. Lamb.
 Thickness of Seam: 6 ft.
 Thickness of Cover: 20 ft. to 35 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: Sec. 13, Twp. 29, Rge. 13, W. 4th Mer.
 Coal Mining Lease Numbers: 5183, 434, 559, 6116.
 C.N.R. and Truck Mine.
 Registered Trade Name: Roselyn & Volcano Coals.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1914.

**John Masciangelo & Partners
Mine No. 1553**

Mine Office: Delia, Alberta.
 Mine Manager: John Masciangelo.
 Overman: John Masciangelo.
 Mine Surveyor: D. Jones.
 Thickness of Seam: 2 ft. 9 in.
 Thickness of Cover: 25 ft. to 60 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 9, 10, 15 and 16, Sec. 21, Twp. 30, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5368.
 Registered Trade Name: Blossom Mine.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1939.

**Lehigh Coal Company Limited
Mine No. 1597**

Authorized Capital: \$100,000.00.
 Name of President: E. A. Lovett.
 Name of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert.
 Name of Secretary: H. R. Narraway.
 Head Office: 1503 - 15 Avenue West, Calgary, Alberta.
 Mine Office: Sheerness, Alberta.
 Mine Manager: M. B. Embree.
 Mine Surveyor: T. Smith.
 Overman: W. B. Ward.
 Thickness of Seam: 4 ft. to 6 ft.
 Thickness of Cover: 18 ft. to 26 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16, Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
 Coal Mining Lease Numbers: 5289, 6095.
 Truck and C.N.R. Mine.
 Registered Trade Name: Crystal Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1943.

TABER AREA**D. McCracken & Goering
Mine No. 833**

Mine Office: Suffield, Alberta.
 Mine Manager: D. McCracken.
 Mine Surveyor: Ed. Ashburner.
 Overman: D. McCracken.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 165 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. x 12 ft.
 Location of Mine: L.S. 6 and 7, Sec. 28, Twp. 12, Rge. 10, W. 4th Mer.
 Coal Mining Lease Number: 5203.
 Truck Mine.
 Registered Trade Name: Sunny South Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1919.

Continental Coal Corporation Ltd.
Mine No. 1334

Authorized Capital: \$2,000,000.00.
Name of President: Victor W. Campbell.
Name of Directors: Walter Schlosser,
Warren Dubois, V. W. Campbell.
Name of Secretary: D. S. Williamson.
Name of Treasurer: V. W. Campbell.
Mine Office: Grassy Lake, Alberta.
General Manager: V. W. Campbell.
Mine Manager: V. W. Campbell.
Mine Surveyor: J. F. Hamilton.
Overman: Joe Morin.
Thickness of Seam: 2 ft.
Thickness of Cover: 21 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 23 and 26, Twp.
9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 124.
C.P.R. and Truck Mine.
Registered Trade Name: Mission Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1930.

Alberta Southern Coal Co. Ltd.
Mine No. 1604

Authorized Capital: \$20,000.00.
Name of President: C. C. Cook.
Name of Directors: F. Mannix, M. M.
McDonald, E. W. Costello, C. C. Cook.
Name of Secretary-Treasurer: E. W.
Costello.
Mine Office: Taber, Alberta.
General Manager: J. C. Cook.
Mine Manager: A. G. Macaulay.
Overman: George Wanner.
Thickness of Seam: 3½ ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Secs. 1 and 12, Twp.
10, Rge. 17, W. 4th Mer.
Coal Mining Lease Numbers: MS 433, 555.
C.P.R. and Truck Mine.
Registered Trade Name: Southalta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

TOFIELD AREA

Chappell Brothers—Mine No. 215

Name of Secretary: R. L. Chappell.
Head Office: 11115 - 89th Avenue, Edmonton, Alberta.
Mine Office: Dodds, Alberta.
Mine Manager: Howard S. Pratt.
Mine Surveyor: David Jones.
Overman: Howard S. Pratt.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 7, Sec. 14, Twp.
49, Rge. 18, W. 4th Mer.
Coal Mining Lease Numbers: 5544, 5545.
C.N.R. and Truck Mine.
Registered Trade Name: Red Flame Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1909.

Tofield Coal Company Limited
Mine No. 252

Authorized Capital: \$100,000.00.
Name of President: Claude Gallinger.
Name of Secretary-Treasurer: Wilber
Gallinger.
Mine Office: Tofield.
General Manager: Claude Gallinger.
Mine Manager: Wilber Gallinger.
Mine Surveyor: David Jones.
Blaster: Anton Johnson.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ½ of Sec. 26, Twp.
50, Rge. 19, W. 4th Mer.

Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Headlight Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

Black Nugget Coal Co. Ltd.
Mine No. 1107

Authorized Capital: \$28,000.00.
Name of President: F. L. Irving.
Name of Directors: C. Ellis, D. Irving,
H. A. Irving.
Name of Secretary-Treasurer: H. A.
Irving.
Head Office: 604 MacLean Block, Calgary,
Alberta.
Mine Office: Dodds, Alberta.
Mine Manager: D. Irving.
Mine Surveyor: D. Jones.
Foreman: J. Harrison.
Blaster: N. Pooke.
Thickness of Seam: 5 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 11 and 12, Sec. 11,
Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Numbers: S.L. 544, 556.
C.N.R. and Truck Mine.
Registered Trade Name: Hi-Lo Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1923.

Ryley Coal Company Limited
Mine No. 1206

Authorized Capital: \$3,000.00.
Mine Office: Ryley, Alberta.
Overman: Mike Zacharchuk.
Thickness of Seam: 11 ft.
Thickness of Cover: 11 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
9 ft. x 7 ft. Depth of Slope: 55 ft.
Location of Mine: L.S. 1 and 8 of Sec. 8,
Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 125.
Truck Mine.
Registered Trade Name: Ryley Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1925.

Christopher Binder—Mine No. 1624

Mine Office: Ryley, Alberta.
Mine Manager: C. Binder.
Mine Surveyor: David Jones.
Overman: C. Binder.
Thickness of Seam: 9 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
10 ft. x 7 ft. Depth of Slope: 80 ft.
Location of Mine: L.S. 5 of Sec. 9, Twp.
49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 613.
Truck Mine.
Registered Trade Name: Ryalta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1944.

WESTLOCK AREA

John Melesko—Mine No. 1517

Mine Office: Thorhild, Alberta.
Mine Manager: John Melesko.
Mine Surveyor: D. Jones.
Foreman: John Melesko.
Thickness of Seam: 4½ ft.
Thickness of Cover: 17 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S.
12, 13, Sec. 12, Twp. 60, Rge. 21, W.
4th Mer.
Coal Mining Lease Number: 5275.
Truck Mine.
Registered Trade Name: Dandy Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

Pickardville Coal Company—Mine No. 1523

Name of Partners: A. R. Kirkwood, A. J. Beardsley.
 Mine Office: Pickardville, Alberta.
 Mine Manager: A. J. Beardsley.
 Mine Surveyor: D. Jones.
 Overman: A. J. Beardsley.
 Thickness of Seam: 5 ft. to 6 ft.
 Thickness of Cover: 18 ft. to 37 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 16, Sec. 35, Twp. 58, Rge. 27, W. 4th Mer.
 Coal Mining Lease Number: 5567.
 Truck Mine.
 Registered Trade Name: Pickardville Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1945.

North Point Coal Co. Ltd.—Mine No. 1562

Authorized Capital: \$30,000.00.
 Name of President: L. Kaszuba.
 Name of Directors: L. Kaszuba, T. Dombroski.
 Name of Secretary-Treasurer: T. Dombroski.
 General Manager: T. Dombroski.
 Mine Surveyor: D. Jones.
 Thickness of Seam: 5½ ft.
 Thickness of Cover: 12 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 1, Sec. 11, Twp. 60, Rge. 21, W. 4th Mer.
 Coal Mining Lease Number: S.L. 526.
 Truck Mine.
 Registered Trade Name: North Point Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1929.

WHITCOURT AREA**Clinton O. Anderson—Mine No. 1348**

Authorized Capital: \$10,000.00.
 Mine Manager: Clinton O. Anderson.
 Mine Office: Greencourt, Alberta.
 Foreman: Clinton O. Anderson.
 Thickness of Seam: 3½ ft.
 Thickness of Cover: 22 ft. to 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: L.S. 13 of Sec. 6, Twp. 58, Rge. 9, W. 5th Mer.
 Coal Mining Lease Number: 6114.
 Truck Mine.
 Registered Trade Name: Anderson Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1931.

Alex Watson—Mine No. 1569

Mine Office: Blue Ridge, Alberta.
 Mine Manager: Alex Watson.
 Mine Surveyor: David Jones.
 Foreman: Joe Golden.
 Thickness of Seam: 3 ft. 8 in.
 Thickness of Cover: 9 ft. to 50 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: Pts. L.S. 13 and 12 of Sec. 24, Twp. 59, Rge. 11, W. 5th Mer.
 Coal Mining Lease Number: 5354.
 Truck Mine.
 Registered Trade Name: Blue Ridge Coal.
 Character of Coal: Sub-bituminous.
 Date of Opening: 1940.

PARTICULARS OF OPERATING QUARRIES DURING 1954 BY AREA**CASCADE AREA****Canadian Cement Company Limited
Quarry No. Q2**

Head Office: P.O. Box 490, Station "B", Montreal, Quebec.
 Quarry Office: Exshaw, Alberta.
 Plant Superintendent: K. E. Alexander.

Foreman: M. Walker.

Blasters: N. Kwaa and R. Callaway.
 Type of Mineral Extracted: Limestone.
 Purpose Used: Manufacture of Cement.
 Location of Quarry: L.S. N.E. ¼ Sec. 22, Twp. 24, Rge. 9, W. 5th Mer.
 Quarry Lease Number: 105 Q.
 C.P.R. Quarry.
 Date of Opening: 1906.

**Loder's Lime Company Limited
Quarry No. Q3**

Head Office: 940 - 8th Avenue West, Calgary, Alberta.
 Quarry Office: Kananaskis, Alberta.
 General Manager: C. D. Muir.
 Quarry Manager: M. F. Parsons.
 Foreman: A. Lawson.
 Blasters: K. Schoenberg and A. Lawson.
 Type of Mineral Extracted: Limestone.
 Purpose Used: Manufacture of Lime and Calcium Products.
 Thickness of Deposit: 75 ft.
 Location of Quarry: N. ½ of Sec. 25, Twp. 24, Rge. 9, W. 5th Mer.
 Quarry Lease Number: Freehold.
 C.P.R. and Truck Quarry.
 Date of Opening: 1906.

CROWSNEST AREA**Summit Lime Works Limited
Quarry No. Q8**

Authorized Capital: \$175,000.00.
 Name of President: Ralph A. Thrall.
 Name of Directors: Bessie Hazell Rose, Nellie Moore, Minnie H. Thrall.
 Name of Secretary: Minnie H. Thrall.
 Name of Treasurer: Bessie Hazell Rose.
 Head Office: Box 273, Lethbridge, Alberta.
 Quarry Office: Crownsnest, British Columbia.
 General Manager: Ralph A. Thrall.
 Quarry Manager: John Grubisich.
 Foreman: John Grubisich.
 Blasters: C. Vidakovic, M. Dordevic.
 Type of Mineral Extracted: Limestone.
 Purpose Used: Lime and Limestone Products.
 Thickness of Overburden: 0 to 30 ft.
 Thickness of Deposit: Several Thousand Feet.
 Location of Quarry: L.S. 2, S. ½ of Sec. 7, Twp. 8, Rge. 5, W. 5th Mer.
 C.P.R. Quarry.
 Date of Opening: 1920.

EDMONTON AREA**J. B. Little & Sons Ltd.—Quarry No. Q1**

Authorized Capital: \$20,000.00.
 Name of President: David Little.
 Names of Directors: David Little, John L. Little.
 Quarry Office: 9120 - 100th Avenue, Edmonton, Alberta.
 Quarry Manager: David Little.
 Type of Mineral Extracted: Clay.
 Purpose Used: Brick Making.
 Thickness of Deposit: 14 ft. to 16 ft.
 Thickness of Overburden: 1 ft.
 Location of Quarry: U 343, Blk. B., R.L. 20, Edmonton, Alberta.
 C.P.R. Quarry.
 Date of Opening: 1893.

**Alexandra Brick & Tile Co. (Canada) Ltd.
Quarry No. Q5**

Authorized Capital: \$2,000,000.00.
 Name of President: C. C. Cousins.
 Name of Director: C. W. Clement.
 Head Office: 306 Qu'Appelle Building, Edmonton, Alberta.
 Quarry Office: Cannell, Alberta.
 Quarry Manager: O. R. Sluss.
 Type of Mineral Extracted: Clay.
 Purpose Used: Manufacture of Structural Clay Products.

Thickness of Deposit: 21 ft.
 Thickness of Overburden: 1 ft.
 Location of Quarry: N.E. $\frac{1}{4}$ of Sec. 21,
 Twp. 53, Rge. 25, W. 4th Mer.
 Quarry Lease Number: Q131.
 C.N.R. and Truck Quarry.
 Date of Opening: 1911.

HALCOURT AREA

K. J. Dalen—Quarry No. Q16

Quarry Office: Grande Prairie, Alberta.
 Quarry Manager: E. Dalen.
 Type of Mineral Extracted: Clay.
 Purpose Used: Brick Making.
 Thickness of Deposit: 6 ft. to 12 ft.
 Thickness of Overburden: 6 in. to 1 ft.
 Location of Quarry: N.E. $\frac{1}{4}$ of Sec. 14,
 Twp. 71, Rge. 6, W. 6th Mer.
 N.A.R. and Truck Quarry.
 Date of Opening: 1951.

MORLEY AREA

Alberta Ytong Manufacturing Co. Ltd. Quarry No. Q18

Authorized Capital: \$450,000.00.
 Name of President: C. R. Walker.
 Name of Directors: A. V. Carlson, N. E. Tanner, E. R. Mackay.
 Name of Secretary: J. G. Ortengren.
 Name of Treasurer: A. V. Carlson.
 Head Office: 940 - 8th Avenue West,
 Calgary, Alberta.
 Quarry Office: Kananaskis, Alberta.
 General Manager: N. Whitehead.
 Quarry Manager: M. F. Parsons.
 Foreman: A. Lawson.
 Blaster: A. Lawson.
 Type of Mineral Extracted: Shale.
 Purpose Used: Manufacture of Ytong Building Stone.
 Thickness of Deposit: 50 ft.
 Thickness of Overburden: 3ft.
 Location of Quarry: Pts. of Sec. 32 and 33, Twp. 24, Rge. 8, W. 5th Mer.
 Quarry Lease Number: Q143.
 C.P.R. Quarry.
 Date of Opening: 1954.

PEKISKO AREA

Light Weight Aggregates of Canada Ltd. Quarry No. Q19

Authorized Capital: \$20,000.00.
 Name of President: L. A. Thorssen.
 Name of Directors: N. A. Dutton, R. F. Jennings, B. A. Monkman.
 Name of Secretary-Treasurer: R. F. Jennings.
 Head Office: 5340 - 1st Street S.W.,
 Calgary, Alberta.
 Quarry Office: 5340 - 1st St. S.W.,
 Calgary, Alberta.
 General Manager: B. A. Monkman.
 Quarry Manager: F. A. Logelin.
 Foreman: A. Boos.
 Type of Mineral Extracted: Shale.
 Purpose Used: Produce Expanded Shale Aggregates.

Thickness of Deposit: 50 ft. to 60 ft.
 Thickness of Overburden: 0 to 10 ft.
 Location of Quarry: L.S. 13, Sec. 5,
 Twp. 22, Rge. 3, W. 5th Mer.
 Truck Quarry.
 Date of Opening: 1954.

REDCLIFF AREA

Perry Brick & Tile Co. Ltd.

Quarry No. Q4

Quarry Office: Redcliff, Alberta.
 Quarry Manager: J. A. Perry.
 Foreman: J. Jans.
 Blaster: P. Richter.
 Type of Mineral Extracted: Shale and Clay.
 Purpose Used: Brick and Tile Manufacture.
 Thickness of Deposit: 37 ft.
 Thickness of Overburden: 10 ft.
 Location of Quarry: L.S. 15 of Sec. 5,
 Twp. 13, Rge. 6, W. 4th Mer.
 C.N.R., C.P.R. and Truck Quarry.
 Date of Opening: 1908.

Redcliff Pressed Brick Co. Ltd. Quarry No. Q6

Head Office: Redcliff, Alberta.
 Quarry Office: Redcliff, Alberta.
 General Manager: G. H. Sissons.
 Type of Mineral Extracted: Clay.
 Purpose Used: Brick Making.
 Location of Quarry: N.W. $\frac{1}{4}$ of Sec. 9,
 Twp. 13, Rge. 6, W. 4th Mer.

Redcliff Pressed Brick Co. Ltd. Quarry No. Q7

Quarry Office: Redcliff, Alberta.
 General Manager: G. H. Sissons.
 Quarry Manager: J. Jasman.
 Blaster: J. Jasman.
 Type of Mineral Extracted: Clay and Shale.
 Purpose Used: Manufacture of Brick.
 Thickness of Deposit: 60 ft.
 Thickness of Overburden: 20 ft.
 Location of Quarry: S.W. $\frac{1}{4}$ of Sec. 9,
 Twp. 13, Rge. 6, W. 4th Mer.
 C.P.R. and Truck Quarry.
 Date of Opening: 1913.

Medicine Hat Brick and Tile Co. Ltd. Quarry No. Q14

Quarry Office: Medicine Hat, Alberta.
 General Manager: Gordon H. Sissons.
 Quarry Manager: Jack A. Gunliffe.
 Foreman: J. Belanger.
 Blaster: Jack A. Gunliffe.
 Type of Mineral Extracted: Clay.
 Purpose Used: Manufacture of Brick and Tile.
 Thickness of Deposit: 50 ft.
 Thickness of Overburden: 25 ft.
 Location of Quarry: L.S. 1 of Sec. 31,
 Twp. 12, Rge. 4, W. 4th Mer.
 C.P.R. and Truck Quarry.
 Date of Opening: 1950.

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